

**INDUSTRIAL WASTE MANAGEMENT INFORMATION
FOR 1976 AND RECORD-TO-DATE**

COMPILED BY:

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OFFICE OF WASTE MANAGEMENT



IDAHO OPERATIONS OFFICE

IDAHO NATIONAL ENGINEERING LABORATORY



DEPARTMENT OF ENERGY

INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION

1976 AND RECORD-TO-DATE

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ABSTRACT

This report summarizes the industrial waste data associated with activities at the Idaho National Engineering Laboratory (INEL) for 1976 and record-to-date. The quantities of liquid industrial waste, the volumes of solid waste, the fuel oil and water used, and the quantities of SO₂ and particulates released are summarized in this report. The waste data has been taken from the INEL Industrial Waste Management Information System (IWMIS).

ABBREVIATIONS

IDENTIFICATION

Argonne National Laboratory
Auxiliary Reactor Area
Central Facilities Area
Chemical Processing Plant
Experimental Breeder Reactor No. 2
Idaho National Engineering Laboratory
Loss of Fluid Test Facility
Low Power Test Facility
Naval Reactors Facility
Power Burst Facility
Special Power Excursion Reactor Test
Test Area North
Technical Support Facilities (TAN)
Test Reactors Area
Transient Reactor Test Facility
Waste Management Complex

ABBREVIATION

ANL
ARA
CFA
CPP
EBR-II
INEL
LOFT
LPT
NRF
PBF
SPERT (PER)
TAN
TSF
TRA
TREAT
WMC

SUMMARY

A computerized Industrial Waste Management Information System (IWMIS) has been used at the Idaho National Engineering Laboratory (INEL) since 1971. The system provides for timely and accurate reports on the amount of all types of industrial waste which has been stored and disposed at the INEL and fuel oil usage and water usage and disposal. The system serves as the official record for all types of industrial wastes stored or disposed at the INEL. It has been an effective tool in the management of industrial waste at the INEL.

This document provides detailed waste management data on the types and quantities of industrial waste, fuel oil usage, and water usage for the year 1976 and record-to-date. It also provides summary reports on INEL industrial waste management for 1976, and provides a measure of the effectiveness of the industrial waste management program at the INEL.

A total of 19,160 cubic yards of solid industrial waste was disposed to sanitary landfills at the INEL during 1976. This represents a decrease from the 24,250 cubic yards in 1975 and 35,010 cubic yards in 1974.

During 1976, a total of 6,000 gallons of waste oils and solvents was disposed of by mixing it with No. 5 oil and utilizing it as fuel in the INEL boilers. This compares with 8,617 gallons in 1975 and 20,660 gallons in 1974.

A total quantity of 12,940,000 pounds of industrial waste was discharged in 1976. This includes 5,278,000 pounds of chemicals, 6,077,000 pounds of total dissolved solids, and 1,585,000 pounds of total hardness which were discharged as liquid wastes to the lithosphere at the INEL. This liquid waste represents a decrease from the total quantity of 13,350,000 pounds in 1975, and an increase from the total quantity of 11,780,000 in 1974.

During 1976, a total of 6,633,000 gallons of fuel oil was used at the INEL which produced 1,078,000 pounds of SO₂ and 69,450 pounds of particulates. During 1975, 7,247,000 gallons of fuel oil was used producing 1,201,000 pounds of SO₂ and 103,000 pounds of particulates. The slight decrease in the quantities of SO₂ and particulates from 1975 to 1976 is attributed to the normal fluctuation of the chemical constituents in the fuel oil.

A total of 2,552,000,000 gallons of water was used at the INEL during 1976 compared to 2,495,000,000 gallons in 1975, and 2,878,000,000 gallons in 1974. However, the majority of this water is returned to the lithosphere via injection wells and seepage ponds. The remaining water is lost to the atmosphere via cooling towers and other evaporatory processes.

A number of reports have been developed for the system. The following are the reports with a brief description and purpose for each:

1. Report 1, INEL Monthly Water Usage Summary. This report summarizes the quantity of water pumped at each facility and the quantity of water disposed to the atmosphere, ground surfaces, and subsurfaces. The percent accountability is also shown.
2. Report 2, INEL Year-to-Date Water Usage Summary. This report provides the quantity of water pumped and disposed and percent accountability at each facility for the year-to-date.
3. Report 3, INEL Industrial Waste Summary. This report summarizes the quantity and type of industrial waste for each area at the INEL. The waste is shown by Types 1 through 9 which correspond generally with the standard classifications for sanitary wastes.
4. Report 4, INEL Airborne and Liquid Disposed Substances Summary. This report provides the monthly total weight of all substances disposed to the environment. It also provides the total amount of waste disposed for the year-to-date.
5. Report 5, INEL Monthly Fuel Oil Summary. This report summarizes information on the types and quantities of fuel oil used during the month for each facility at the INEL. It also provides the quantities of SO₂, NO_x, and particulates released to the atmosphere.
6. Report 6, INEL Year-to-Date Fuel Oil Summary. This report provides similar information to Report 5 for the year-to-date.

Other reports available from the system are:

Series XX4, (Facility) Airborne Disposed Substances Summary
Series XX5, (Facility) Liquid Disposed Substances Summary
Series XX6, (Facility) Industrial Waste Summary
Series XX7, (Facility) Water Usage and Disposal Summary
Series XX8, (Facility) Fuel Oil Usage and Stack Effluents Summary

INEL INDUSTRIAL WASTE SUMMARY
RECORD-TO-DATE

WASTE TYPE	1971-1973	1974	1975	1976
SANITARY WASTE (CUBIC YARDS)	94,430	35,010	24,250	19,160
OIL-SCLVENTS (GALLONS)	44,560	20,660	8,617	6,000
LIQUID WASTE (POUNDS)	20,210,000	11,080,000	12,820,000	12,180,000
AIRBORNE WASTE (POUNDS)*	3,358,000	2,061,000	1,835,000	1,908,000
FUEL OIL:				
QUANTITY (GALLONS)	21,280,000	7,358,000	7,744,000	7,170,000
SO ₂ (POUNDS)	3,230,000	1,227,000	1,201,000	1,078,000
PARTICULATES (POUNDS)	128,200	133,800	103,000	69,450
WATER-USED (1,000 GALLONS)	7,417,000	2,878,000	2,495,000	2,552,000

* NOTE: INCLUDES SO₂ AND PARTICULATES FROM FUEL OIL TOTALS

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

**INFL SOLID AND LIQUID INDUSTRIAL WASTE SUMMARY
RECORD-TO-DATE**

YEAR	ANL	ARA	CFA	CPP	NRF	PBF	TAN	TFA	WMC	TOTAL
<hr/>										
RECCRC-TC-LATE (71-74)										
SANITARY WASTE (CU. YDS)										
15,550	1	23,430	14,060	40,570	4,840	12,070	18,890			129,400
OILS & SOLVENTS (GALLONS)										
110		27,000		36,460		150	1,500			65,220
CHEMICALS										
LIQUIDS (GALLONS)					10,770	75		1,659		12,500
SOLIDS (PCUNDS)					7,992			38,770		50,340
<hr/>										
1975										
SANITARY WASTE (CU. YDS)										
2,501		3,723	3,672	6,991	9	4,027	3,327			24,250
OILS & SOLVENTS (GALLONS)					8,061					8,617
CHEMICALS										
LIQUIDS (GALLONS)					200		<1			202
SOLIDS (PCUNDS)										15
<hr/>										
1976										
SANITARY WASTE (CU. YDS)										
2,456		2,750	2,290	6,463	24	2,610	2,568			19,160
OILS & SOLVENTS (GALLONS)					6,000					6,000
CHEMICALS										
LIQUIDS (GALLONS)										
SOLIDS (PCUNDS)							1			1

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL INDUSTRIAL WASTE SUMMARY IN CUBIC YARDS*
FOR JANUARY THROUGH DECEMBER 1976

TYPES	ANL	CFA	CPP	NPF	PBF	TAN	TPA	TOTAL
1. TRASH	2,050	1,894	1,760	4,120	24	2,240	2,455	14,540
2. CAFETERIA GARBAGE	408	626	530	1,272		337	83	3,258
3. WOOD & SCRAP LUMBER			162		413		12	587
4. MASONRY & CONCRETE			66		454		30	12
5. SCRAP METAL					187		3	196
6. OIL (GALLONS)				6,000				6,000
7. SOLVENTS (GALLONS)								
8. CHEMICALS LIQUID (GALLONS) SOLIDS (POUNDS)						1		1
9. OTHERS LIQUID (GALLONS) SOLIDS (CU. FT.)				450				450
 TOTALS								
SANITARY TYPES 1, 2, 3, 4, 5, & 9 (CUBIC YARDS)	2,458	2,750	2,290	6,463	24	2,610	2,568	19,160
OILS & SOLVENTS TYPES 6 & 7 (GALLONS)				6,000				6,000
CHEMICALS LIQUIDS (GALLONS) SOLIDS (POUNDS)						1		1

* EXCEPT AS NOTED

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

AIRBORNE AND LIQUID
INDUSTRIAL WASTE SUBSTANCES SUMMARY IN POUNDS
RECORD-TO-DATE

SUBSTANCE IDENTIFICATION	1971-1974	1975	1976	TOTAL
AMIDES			520	520
AUTC CLEANERS	20,010	4,456	4,552	29,020
BETZ A-9	150			150
BETZ DE 419	4,097	1,800		5,897
BETZ DE 453	250			250
BETZ DE 481	17,370			17,370
BETZ DIANODIC 194	170	1,554	100	1,824
BETZ J-12	40			40
BETZ NEUTRMEEN	3,382	217	81	3,680
BETZ 109	5	70	1	76
BETZ 194	663			663
BETZ 406	246	39		285
BETZ 429		11,400		11,400
BETZ 65	1,200			1,200
BIGCIDE D-2	21,250			21,250
BLEACH	1,531	257	191	1,979
CALCIUM ION	802	184	206	1,192
CARBENTHIOCYANATES			48	48
CHLORIDE ION	2,832,000	952,200	1,005,000	4,789,000
CHLCROCARBONS			5	5
CHLCRHYDROCARBCNS			965	965
CHLCROSULFONES			380	380
CHROMATE ION			99	99
CLCRCHLCRHCARBCNS				
DIANODIC 194	34,240			34,240
DI FHCSPHUNATE			3,744	3,744
DISPERSANT 403	28,720			28,720
HEXAVALENT CR	5,317	127	116	5,560
HPC			1,235	1,235
HYDRAZINE		27		27
HYPOCARBON-AMINES			9	9
HYDROCARBONS			483	483
HYRCXYCARBON			146	146
HYRCXYCARBONS			5,164	5,164
HYPCHLCRITE	32,160	2,215	1,016	35,390
HYPCHLCRITE ION			1,514	1,514
KP40 CCELLANT CNTRL			160	160
KWIK KLEEN	2,425	1,200	1,000	4,625
LAUNDRY PRODUCTS	3,793	1,754	5,215	10,760
M-60 ALGAECIDE			8	8
M-80T ALGAECIDE			8	8
MORPHCLINE		72	2	74
N-HYDRCARBON			2,092	2,092
NALCC 7312		392		392
NALCC 7323		408		408
NALCOL 7351		1,853		1,853
NAPTHA			56	56
NITRATE ION	168,300	60,960	89,110	318,400
NITROGEN DIOXIDE	699,400	530,900	760,700	1,991,000

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

AIRBORNE AND LIQUID
INDUSTRIAL WASTE SUBSTANCES SUMMARY IN POUNDS
RECORD-TO-CATE

SUBSTANCE IDENTIFICATION	1971-1974	1975	1976	TOTAL
DRCCL 194	150			150
DRCCL 734	116,400	33,610	4,984	155,000
OXYCARBONS		1		1
PHOSPHATE		200		200
PHOSPHATE ION	80,650	27,540	24,130	132,300
PHOSPHONATES			51	51
PHOT LAB CHEMICAL	12,880	5,040	5,280	23,200
POLYHYDROXYCARBON			25	25
POLYNUDIC 606	54,000	43,450	39,700	137,200
POLYNUDIC 633		5,000		5,000
POTASSIUM ION			4,386	4,386
SILICACARBONS			45	45
SILICATE ION			79	79
SKASOL		960	400	1,360
SKAZOL	6,976			6,976
SLIMICIDE A-9	13,540	7,080	1,280	21,900
SLIMICIDE C-35	3,703	3,196	672	7,571
SLIMICIDE D-2	4,484			4,484
SLIMICIDE J-12	7,458	6,260	2,867	16,590
SLIMICIDE J-9	22,180	9,480	3,440	35,100
SLIMICIDE 403	4,968			4,968
SOAP	59,760	3,421	4,752	67,930
SODIUM ION	2,615,000	780,200	660,100	4,055,000
SODIUM PHOSPHATE				1,900
SPRA-SAF	1,900			1,900
SULFATE ION	9,899,000	2,633,000	2,633,000	15,160,000
SULFITE ION	11,310	885	1,610	13,810
SULFONATES			1,909	1,909
SULFUR DIOXIDE	16,880	1,332		18,210
TDS	14,150,000	7,042,000	6,077,000	27,270,000
THIICARBONS			38	38
THIHYDROCARBONS			98	98
TOTAL HARDNESS	1,027,000	1,179,000	1,585,000	3,791,000
TRIVALENT CR	164	389	844	1,397
ZINC ION	3,865	126	292	4,283
TOTAL	31,990,000	13,350,000	12,940,000	58,280,000

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

**AIRBCFNE AND LIQUID
INDUSTRIAL WASTE SUBSTANCES SUMMARY IN POUNDS
FOR JANUARY THROUGH DECEMBER, 1976**

SUBSTANCE IDENTIFICATION	ANL	CFA	CPP	NRF	PBF	TAN	TPA	TOTAL
AMIDES	20			500				520
AUTC CLEANERS		4,552						4,552
BETZ DIANCCIC 154					100			100
BETZ NEUTRMEEN	81							81
BETZ 1C9					1			1
BLEACH		191						191
CALCIUM ION	20	58	87	44		41		206
CARBON THIOCYANATES	4							48
CHLORIDE ION	56	14,870	605,300	351,900		32,590	531	1,005,000
CHLOROCARBCNS	5			965				5
CHLORHYDRCARBONS				364				965
CHLORCSULFONES	16				99			380
CHROMATE ION								99
CHLORHYDRCARBCNS						3,744		3,744
DIFHCSFHCRATE								116
HEXAVALENT CR	43			72	42		1,192	1,235
HPA								9
HYDROCARBON-AMINES	9							483
HYDROCARBONS	40			443				146
HYDROXYCARBON				146				5,164
HYDROXYCARBONS	13			1,093		4,057		1,016
HYPCCHLORITE		409						1,514
HYPCCHLORITE ION		440	223			104	747	160
KP40 (COLANT CNTRL	160							1,000
KWIK KLEEN		1,000						5,215
LAUNDRY PRODUCTS		5,215						
M-60 ALGAECLIDE	8							8
M-80T ALGAECLIDE	8							2
MORPHCLINE	2							2,092
N-HYDRCARBON				1,568		524		56
NAPTHA				56				89,110
NITRATE ION			89,110					760,700
NITRGEEN DIOXIDE			760,700					4,984
OROCOL 734				4,984				1
OXYCARBONS	1		200					200
PHOSPHATE								24,130
PHOSPHATE ION	591			10,470	88	655	12,330	51
PHCSPECNATES	51							5,280
PHCTO LAB CHEMICAL	5,280				25			25
POLYHYDRCARBON								39,700
PCLYNCEIC 606							39,700	4,386
POTASSIUM ION							4,386	
SILICACARBONS	45			79				45
SILICATE ION								79
SKASCL	400			1,280				400
SLIMICIDE A-9				672				1,280
SLIMICIDE C-35				1,392				672
SLIMICIDE J-12				1,440		1,475		2,867
SLIMICIDE J-9							2,000	3,440

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

AIRCIRNE AND LIQUID
INDUSTRIAL WASTE SUBSTANCES SUMMARY IN POUNDS
FOR JANUARY THROUGH DECEMBER, 1976

SUBSTANCE IDENTIFICATION	ANL	CFA	CPP	NRF	PBF	TAN	TRA	TOTAL
SOAP		4,752						4,752
SODIUM ION	9,428	9,437	252,100	243,900	2,795	25,080	117,400	662,100
SODIUM PHOSPHATE								
SULFATE ION	59,970		10,710	456,800	4,109	5,238	2,096,000	2,633,000
SULFITE ION					2	1,595	13	1,610
SULFONATES				1,909				1,909
TDS			1,714,000	885,000			3,478,000	6,077,000
THIICARBONS	38							38
THICHYROCARBONS				98				98
TOTAL HARDNESS							1,585,000	1,585,000
TRIVALENT CR	844							844
ZINC ION	276				16			292
TOTAL	77,410	41,120	3,432,000	1,965,000	7,279	65,290	7,348,000	12,940,000

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL FUEL CIL SUMMARY
RECORD-TO-DATE

AREA	1971-1974				1975				1976			
	FUEL OIL (GAL)	SO2 (LBS)	PART. (LBS)	DIESEL (GAL)	FUEL OIL (GAL)	SO2 (LBS)	PART. (LBS)	DIESEL (GAL)	FUEL CIL (GAL)	SO2 (LBS)	PART. (LBS)	DIESEL (GAL)
ANL	3,275,000	354,800	24,420		530,500	23,960	603		387,200	17,920	2,380	
ARA	128,000	4,554	1,152		12,040	357			33,900	1,952		
CFA	2,469,000	324,800	49,060		816,100	34,660			492,900	28,390		
CPP	6,852,000	550,700	12,140		1,640,000	75,250			2,100,000	115,100		
NRF	6,822,000	1,579,000	49,430		1,842,000	536,300	29,730		1,418,000	374,500	25,380	
PBF	102,700	5,417	502		38,120	1,071			36,210	1,627		11,520
TAN	3,036,000	661,000	56,900	700	980,000	212,900	23,140		1,145,000	263,000		
TRA	4,508,000	972,100	68,360	1,445,000*	1,188,000	314,200	49,310	497,600*	1,004,000	274,500	41,680	525,200*
WMC									15,820	911		
TOTAL	27,190,000	4,457,000	262,000	1,446,000*	7,247,000	1,201,000	103,000	497,600*	6,633,000	1,078,000	69,450	536,700*

* TRA EMERGENCY GENERATOR

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL WATER USAGE SUMMARY IN THOUSAND GALLONS

PERIOD-TO-DATE

AREA	1971-1974	1975	1976	TOTAL
ANL	403,700	174,600	141,400	719,700
ARA	115,000	41,560	33,440	189,800
CFA	468,300	117,600	97,780	683,700
CPP	1,420,000	367,400	504,600	2,292,000
NFF	2,168,000	606,400	330,800	3,105,000
PBF	36,330	8,119	9,771	54,220
TAN	175,900	96,640	121,100	393,600
TRA	5,509,000	1,083,000	1,301,000	7,892,000
WMC			12,500	12,500
TOTAL	10,300,000	2,495,000	2,552,000	15,340,000

DETAILS MAY NOT ADD UP TO TOTALS BECAUSE OF ROUNDING

INEL MONTHLY WATER USAGE SUMMARY
 DECEMBER 1976

PG. 1 RPT 1-1

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

AREA OF ORIGIN	MONTHLY VOLUME PUMPED	MONTHLY VOLUME DISPOSED				ACCOUNTABILITY (%)	
		AIR	SURFACE	SUBSURFACE	SEWAGE		
ANL	11,568	6,406	2,784		827 *	10,017	86.6
AFA	3,703	*	*	3,579 *	174 *	3,703	100.0
CFA	12,823	*	458 *	121	3,547	4,126	32.2
CPP	40,000		*	27,290	846	28,136	70.3
NRF	22,370	15,390 *	3,220 *		2,046	20,658	92.3
PBF	690	87	*	358 *	52 *	497	72.0
TAN	6,047	*	1,559 *	1,956 *	346 *	3,861	63.8
TRA	132,110	11,740	67,690 *	40,740	773	120,943	91.5
WMC	2,283	*	2,012 *	253 *	6	2,271	99.5
GRAND TOTALS	231,594	33,623	77,723	74,247	8,619	194,212	83.9

NOTE: *** IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

INEL YEAR-TO-DATE WATER USAGE SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 2-1

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

AREA OF ORIGIN	YEARLY VOLUME PUMPED	YEARLY VOLUME DISPOSED				ACCOUNTABILITY (%)	
		AIR	SURFACE	SUBSURFACE	SEWAGE		
ANL	141,418	75,813	42,787		7,491 *	126,091	89.2
ARA	33,437	*	*	31,349 *	2,088 *	33,437	100.0
CFA	97,768	*	23,476 *	1,303	42,276	67,055	68.6
CPP	504,590		*	354,370	8,986	363,358	72.0
NRF	330,839	124,509 *	165,801 *		18,017	308,327	93.2
PBF	9,771	833	*	3,922 *	596 *	5,351	54.8
TAN	121,064	*	50,654 *	39,285 *	4,702 *	94,641	78.2
TRA	1,300,694	274,020	431,410 *	457,060	8,800	1,171,290	90.1
WMC	12,503	*	4,565 *	7,647 *	192	12,404	99.2
GRAND TOTALS	2,552,084	475,175	718,693	894,936	93,150	2,181,954	85.5

NOTE: ** IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

INFL INDUSTRIAL WASTE SUMMARY
DECEMBER 1976

PG 1 RPT 3-1

AREA OF ORIGIN TYPE OF WASTE	MONTHLY VOLUME OR WEIGHT UNITS		YEAR-TO-DATE VOLUME OR WEIGHT UNITS	
	SOLID	Liquid		
ANL DISPOSED WASTE 1 - TRASH 2 - CAFETERIA GARBAGE	SOLID		210.0 CU. YD. 40.0 CU. YD.	
			2,050.0 CU. YD. 408.0 CU. YD.	
CFA DISPOSED WASTE 1 - TRASH 2 - CAFETERIA GARBAGE 3 - WOOD AND SCRAP LUMBER 4 - MASONRY AND CONCRETE	SOLID		240.0 CU. YD. 32.0 CU. YD.	
			1,894.0 CU. YD. 628.0 CU. YD. 162.0 CU. YD. 57.0 CU. YD.	
	STORED WASTE 4 - MASONRY AND CONCRETE	SOLID		9.0 CU. YD.
CPP DISPOSED WASTE 1 - TRASH 2 - CAFETERIA GARBAGE	SOLID		130.0 CU. YD. 32.0 CU. YD.	
			1,980.0 CU. YD. 564.0 CU. YD.	
NRF DISPOSED WASTE 1 - TRASH 2 - CAFETERIA GARBAGE 3 - WOOD AND SCRAP LUMBER 4 - MASONRY AND CONCRETE 5 - SCRAP METAL 9 - OTHER	SOLID		350.0 CU. YD. 112.0 CU. YD. 35.3 CU. YD. 2.8 CU. YD. 9.3 CU. YD.	
			4,120.1 CU. YD. 1,272.0 CU. YD. 412.8 CU. YD. 454.5 CU. YD. 186.8 CU. YD. 450.0 CU. FT.	
	STORED WASTE 6 - OIL	LIQUID		6,000.0 GALLONS
PBF DISPOSED WASTE 1 - TRASH	SOLID			24.0 CU. YD.
TAN DISPOSED WASTE 1 - TRASH 2 - CAFETERIA GARBAGE 4 - MASONRY AND CONCRETE 8 - CHEMICALS	SOLID		186.0 CU. YD. 40.0 CU. YD.	2,240.4 CU. YD. 337.0 CU. YD. 21.0 CU. YD. 1.0 POUNDS
	STORED WASTE			

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INEL INDUSTRIAL WASTE SUMMARY
DECEMBER 1976

PG 2 RPT 3-1

AREA OF ORIGIN TYPE OF WASTE		MONTHLY VOLUME OR WEIGHT UNITS	YEAR-TO-DATE VOLUME OR WEIGHT UNITS
TAN			
STORED WASTE			
4 - MASONRY AND CONCRETE	SOLID	9.0 CU. YD.	9.0 CU. YD.
5 - SCRAP METAL	SOLID		3.0 CU. YD.
TRA			
DISPOSED WASTE			
1 - TRASH	SOLID	240.0 CU. YD.	2,455.0 CU. YD.
2 - CAFETERIA GARBAGE	SOLID		83.0 CU. YD.
3 - WOOD AND SCRAP LUMBER	SOLID		12.0 CU. YD.
4 - MASONRY AND CONCRETE	SOLID		9.0 CU. YD.
5 - SCRAP METAL	SOLID		6.0 CU. YD.
STORED WASTE			
4 - MASONRY AND CONCRETE	SOLID		3.0 CU. YD.
INEL GRAND TOTALS			
DISPOSED WASTE			
1 - TRASH	SOLID	1,356.0 CU. YD.	14,763.5 CU. YD.
2 - CAFETERIA GARBAGE	SOLID	256.0 CU. YD.	3,292.0 CU. YD.
3 - WOOD AND SCRAP LUMBER	SOLID	35.3 CL. YD.	566.8 CU. YD.
4 - MASONRY AND CONCRETE	SOLID	2.8 CU. YD.	541.5 CU. YD.
5 - SCRAP METAL	SOLID	9.3 CU. YD.	192.8 CU. YD.
8 - CHEMICALS	SOLID		1.0 POUNDS
9 - OTHER	SOLID		450.0 CU. FT.
STORED WASTE			
4 - MASONRY AND CONCRETE	SOLID	9.0 CU. YD.	21.0 CU. YD.
5 - SCRAP METAL	SOLID		3.0 CU. YD.
6 - OIL	LIQUID		6,000.0 GALLONS

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INTEL AIRBORNE AND LIQUID DISPERSED SUBSTANCES SUMMARY
DECEMBER 1976

PG 1 FPT 4-1

ALL FACILITIES SUBSTANCES	MONTHLY				YEAR-TD-DATE			
	ATMOSPHERE (POUNDS)	SURFACE (POUNDS)	SUBSURFACE (POUNDS)	TOTAL (POUNDS)	ATMOSPHERE (POUNDS)	SURFACE (POUNDS)	SUBSURFACE (POUNDS)	TOTAL (POUNDS)
AMIDES		34		34		520		520
AUTOCLEANERS			376	376			4,552	4,552
BETZ CIANODIC 194						100		100
BETZ NEUTRMEEN						81		81
BETZ 109						1		1
BLEACH						191		191
CALCIUM ION	3	25		28		61	141	202
CARBENTHICCYANATES		5		5		48		48
CHLORIDE ION	19,918	48,437		68,355		380,900	624,340	1,005,240
CHLOROCARBONS						5		5
CHLORHYDROCARBONS						965		965
CHLORSULFONES	26			26		380		380
CHROMATE ION			14	14			99	99
CHLORHYDROCARBONS						3,744		3,744
DIPHOSPHONATE			447	447				
HEXAVALENT CR	5			5	43	72		116
HPA			169	169			1,235	1,235
HYDROCARBON-AMINES		1		1		9		9
HYDROCARBONS		55		55		483		483
HYDROXYCARBON						146		146
HYDROXYCARBONS	16	444		460		1,106	4,057	5,164
HYPHENOLITE						252	868	1,120

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INEL AIRBORNE AND LIQUID DISPOSED SUBSTANCES SUMMARY
DECEMBER 1976

RUN DATE: 04/22/77

PG 2 PPT 4-I

ALL FACILITIES SUBSTANCES	MONTHLY				YEAR-TO-DATE			
	ATMOSPHERE (POUNDS)	SURFACE (POUNDS)	SUBSURFACE (POUNDS)	TOTAL (POUNDS)	ATMOSPHERE (POUNDS)	SURFACE (POUNDS)	SUBSURFACE (POUNDS)	TOTAL (POUNDS)
HYPOCHLORITE ION	46	160		206		263	1,138	1,401
KP40 COCLANT CTRBL						160		160
KWIK KLEEN							1,100	1,100
LAUNDRY PRODUCTS		518		518			5,215	5,215
M-60 ALGAECLICE						8		8
M-80T ALGAECLICE						8		8
MORPHLINE						2		2
N-HYDROCARBON	23			23		1,568	524	2,092
NAPTHA		1		1		56		56
NITRATE ION							77,971	77,971
NITROGEN DIOXIDE					534,200			534,200
ORGCL 734						4,984		4,984
OXYCARBONS						1		1
PHOSPHATE		100		100			100	100
PHOSPHATE ION	332	1,294		1,626		11,523	12,610	24,133
PHOSPHONATES						51		51
PHOTC LAB CHEMICAL	440			440		5,280		5,280
POLYHYDROXYCARBON		3		3			25	25
POLYNEDIC 606							39,700	39,700
POTASSIUM ION		586		586			4,386	4,386
SILICACARBONS						45		45
SILICATE ION	7			7		74		79

INEL AIRBORNE AND LIQUID DISPERSED SUBSTANCES SUMMARY
DECEMBER 1976

PG 3 EPT 4-E

ALL FACILITIES SUBSTANCES	MONTHLY			YEAR-TO-DATE				
	ATMOSPHERE (POUNDS)	SURFACE (POUNDS)	SUBSURFACE (POUNDS)	TOTAL (POUNDS)	ATMOSPHERE (POUNDS)	SURFACE (POUNDS)	SUBSURFACE (POUNDS)	TOTAL (POUNDS)
SKASCL						400		400
SLIMICIDE A-5						1,280		1,280
SLIMICIDE L-35						672		672
SLIMICIDE J-12						1,392	1,475	2,867
SLIMICIDE J-5						1,440	2,000	3,440
SOAP		450	450				4,752	4,752
SODIUM ION	23,756	1,995	25,751		390,922	242,351		633,274
SODIUM PHOSPHATE								
SULFATE ION	324,980	536,770	861,750		2,178,974	1,114,394		3,293,367
SULFITE ION	279	67	346		1,206	403		1,610
SULFONATES	166		166			1,909		1,909
TDS	236,053	330,344	566,398		1,740,274	4,336,446		6,076,720
THIOCARBONS						38		38
THIHYDROCARBONS						98		98
TOTAL HARDNESS		135,406	135,406				1,585,187	1,585,187
TRIVALENT CR	82		82			844		844
ZINC ION	26	2	29		3	273	16	292

SCHED. NO. INF6164-A

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RUN DATE: 04/22/77

INEL MONTHLY FUEL OIL SUMMARY
DECEMBER 1976

PG 1 RPT 5-1

AREA OF ORIGIN	FUEL OIL IN GALLONS					POUNDS DISCHARGED		
	TYPE 2	TYPE 5	TYPE 6	KEROSENE	DIESEL	SU2	NOX	PARTICULATES
ANL	26,150					1,390		288
CFA	71,860					4,139		
CPP	213,800			16,920		12,316		
NRF		166,600				62,341	4,498	2,782
PBF	5,835					155		
TAN	6,500	105,800				26,170		
TRA		144,400			39,340	37,748		5,993
WMC	5,562					320		
GRAND TOTALS	329,707	416,800		16,920	39,340	144,579	4,498	9,263

INEL YEAR-TO-DATE FUEL OIL SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 6-1

AREA OF ORIGIN	FUEL OIL IN GALLONS					POUNDS DISCHARGED		
	TYPE 2	TYPE 5	TYPE 6	KEROSENE	DIESEL	SO2	NOX	PARTICULATES
ANL	387,188					17,920		2,380
CFA	492,660					28,388		
CPP	1,998,800			25,460		115,137		
NRF		1,418,170				374,515	38,290	25,384
PBF	36,212				11,523	1,627		
TAN	83,760	618,140		443,080		154,117		
TRA		960,100		44,270	525,160	263,639		41,682
WMC	15,823					911		
GRAND TOTALS	3,014,643	2,996,410		512,810	536,683	956,254	38,290	69,446

SCHED. NO. INF6166-B

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

PUB DATE: 04/22/77

TRA AIRBORNE DISPERSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 PPT 104-1
TPA-A

RELEASE POINT DESCRIPTION SUBSTANCE	JAN JUL	FEB AUG	MAR SEP	APR OCT	MAY NOV	JUN DEC	ANNUAL TOT & AVG.
COOLING TOWERS EVAP VOLUME (CU.FT. IN 1000)	3,379 3,255	3,862 2,180	2,853 3,183	2,295 6,225	1,632 2,699	2,962 1,507	36,032
STEAM LOSS (WATER) VOLUME (CU.FT. IN 1000)	132 25	74 14	64 15	64 39	60 41	26 64	618

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

SCHED. NO. INFO166-C

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 04/22/77

TVA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 EPT 105-1
TRA-L

AREA GRAND TOTALS SUBSTANCE												ANNUAL TOTALS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
CHLORIDE ION WEIGHT (POUNDS)							68	101	112	123	73	54	581
DIMETAPHOSPHONATE WEIGHT (POUNDS)							1,134	201	652	819	490	447	3,743
HPC WEIGHT (POUNDS)							479	99	198	110	142	165	1,193
HYDROXYCARBONS WEIGHT (POUNDS)							1,096	155	749	1,012	601	444	4,057
HYPOCHLORITE WEIGHT (POUNDS)	117	112	112	102	112	52							607
HYPOCHLORITE ION WEIGHT (POUNDS)							89	147	157	173	102	79	747
N-HYDROXYCARBON WEIGHT (POUNDS)							210		105	105	105		525
PHOSPHATE ION WEIGHT (POUNDS)	21	528	786	378	605	335	2,746	1,381	1,698	1,689	947	1,215	12,329
POLYNUDIC 606 WEIGHT (POUNDS)	6,975	7,700	6,875	7,700	3,300	7,150							39,700
POTASSIUM ION WEIGHT (POUNDS)							1,657	351	703	611	478	586	4,386
SLIMICIDE J-12 WEIGHT (POUNDS)					575	900							1,475
SLIMICIDE J-9 WEIGHT (POUNDS)	625	375	625	375									2,000
SODIUM ION WEIGHT (POUNDS)	10,930	7,404	8,841	9,450	10,665	6,333	12,036	9,814	9,912	13,383	9,372	9,248	117,388
SULFATE ION WEIGHT (POUNDS)	168,212	144,686	128,592	147,567	155,958	147,812	221,237	180,451	198,573	262,503	185,964	637,035	2,578,590
SULFITE ION WEIGHT (POUNDS)	3	4	3									3	13

SCHED. NO. INF6166-C

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TFA LIQUID DISPOSED SUBSTANCES SUMMARY
 FOR JANUARY THROUGH DECEMBER 1976

PG 2 PPT 105-I
TPA-L

AREA GRAND TOTALS SUBSTANCE													ANNUAL TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TDS WEIGHT (POUNDS)	189,011	164,843	226,569	171,906	265,546	264,364	457,752	333,167	375,082	406,071	279,821	339,979	3,478,111
TOTAL HARDNESS WEIGHT (POUNDS)	109,360	94,611	120,916	85,837	117,668	118,886	195,526	134,533	163,136	193,671	115,636	135,406	1,585,186

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INTEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 04/22/77

TFA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

 PG 3 RPT. 105-1
 TFA-L

RELEASE POINT DESCRIPTION SUBSTANCE													ANNUAL	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT & AVE	
CHEMICAL WASTE POND SURFACE VOLUME (GAL. IN 1000)	2,376	1,763	2,052	1,887	2,354	1,764	2,548	2,089	2,135	2,981	2,275	2,239	26,463	
HYDROGEN-ION CONC. (PH)														
SODIUM ION CONCENTRATION (PPM)	550.98	502.99	516.25	599.42	542.97	430.05	539.48	557.09	537.98	521.44	480.85	482.84	522.95	
WEIGHT (POUNDS)	10,925	7,400	8,838	9,447	10,660	6,331	11,471	9,712	9,585	12,972	9,125	9,022	115,488	
SULFATE ION CONCENTRATION (PPM)	6013.77	1625.67	5064.69	6254.20	6986.55	6425.61	1426.44	6800.61	6368.42	1894.32	1001.84	5417.19	6,651.45	
WEIGHT (POUNDS)	119,242	112,193	86,730	96,487	137,255	54,591	157,913	118,557	113,466	196,387	133,046	101,033	1,463,901	
DESEPT SURFACE VOLUME (GAL. IN 1000)	17,090	13,040	20,480	17,600	30,650	8,706	50,380	45,580	24,320	37,720	47,230	65,450	378,246	
HYDROGEN-ION CONC. (PH)														
TDS CONCENTRATION (PPM)	192.00	176.00	235.00	255.00	260.00	239.00	253.00	258.00	300.00	266.00	264.00	247.00	251.75	
WEIGHT (POUNDS)	27,333	19,118	40,091	37,385	66,382	17,333	106,175	97,958	60,776	83,579	103,864	134,664	794,658	
DISPOSAL WELL SUBSURFACE VOLUME (GAL. IN 1000)	40,520	33,210	34,810	30,760	40,130	32,000	49,520	36,050	41,580	44,370	33,370	40,740	457,060	
HYDROGEN-ION CONC. (PH)	8.3	8.2	8.1	7.8	8.1	7.4	8.3	7.9	7.7	8.1	9.4	8.3	8.1	
CHLORIDE ION CONCENTRATION (PPM)														
WEIGHT (POUNDS)														
DIPHOSPHONATE CONCENTRATION (PPM)														
WEIGHT (POUNDS)														
HMPA CONCENTRATION (PPM)														
WEIGHT (POUNDS)														
HYDROXYCARBONS CONCENTRATION (PPM)														
WEIGHT (POUNDS)														
HYPOCHLORITE CONCENTRATION (PPM)	±20	±25	±24	±23	±15	±14								.09
WEIGHT (POUNDS)	69	70	69	58	52	37								355

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

TPA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 4 PPT 105-I
TPA-L

RELEASE POINT DESCRIPTION SUBSTANCE													ANNUAL	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT & AVE	
HYDROCHLORITE ION CONCENTRATION (PPM) WEIGHT (POUNDS)							117 72	139 116	145 157	140 149	122 60	110 33	.15 587	
N-MYCOPICARBON CONCENTRATION (PPM) WEIGHT (POUNDS)							21 210		30 105	28 105	28 105		.14 525	
PHOSPHATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	.06 21	1.91 528	2.71 786	1.48 378	1.81 605	1.26 335	4.65 2,746	4.60 1,381	4.82 1,698	4.57 1,689	3.41 947	3.57 1,215	3.23 12,329	
POLYACIDIC 606 CONCENTRATION (PPM) WEIGHT (POUNDS)	20.63 6,975	21.78 7,700	23.67 6,875	30.00 7,700	9.85 3,300	26.17 7,150							10.41 39,700	
POTASSIUM ION CONCENTRATION (PPM) WEIGHT (POUNDS)							4.01 1,657	1.17 351	2.02 703	1.65 611	1.72 478	1.73 586	1.15 4,386	
SLIMICIDE J-12 CONCENTRATION (PPM) WEIGHT (POUNDS)						1.72 575	3.37 900						.39 1,475	
SLIMICIDE J-9 CONCENTRATION (PPM) WEIGHT (POUNDS)	1.85 625	1.35 375	2.15 625	1.46 375									.52 2,000	
SODIUM ION CONCENTRATION (PPM) WEIGHT (POUNDS)	.02 5	.02 4	.02 4	.01 3	.02 4		1.36 565	.33 102	.24 326	1.11 411	.90 247	.87 226	.50 1,900	
SULFATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	144.82 48,970	117.24 32,493	144.11 41,862	151.20 49,080	55.85 18,702	199.30 53,221	153.24 63,324	205.74 61,894	245.27 85,107	178.56 66,115	190.92 52,918	1576.55 536,002	290.93 1,109,688	
SULFITE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	.01 3	.01 4	.01 3									.01 3	13	
TDS CONCENTRATION (PPM) WEIGHT (POUNDS)	479.00 161,678	534.00 147,725	650.00 188,479	525.00 134,521	586.00 195,890	850.00 237,238	816.00 336,601	714.00 214,412	890.00 308,262	857.00 316,749	633.00 175,956	605.00 205,315	687.64 2,622,826	

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

TFA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 5 RPT 105-1
TRA-L

RELEASE POINT DESCRIPTION SUBSTANCE													ANNUAL TOT & AVE
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TOTAL HARDNESS													
CONCENTRATION (PPM)	324.00	342.00	417.00	335.00	352.00	446.00	474.00	448.00	471.00	524.00	416.00	399.00	415.60
WEIGHT (POUNDS)	109,360	94,611	120,916	85,837	117,668	118,886	195,526	134,533	163,136	193,671	115,636	135,406	1,585,186
IRRIGATION SURFACE													
VOLUME (GAL. IN 1000)													
HYDROGEN-ION CONC. (PH)													
TDS													
CONCENTRATION (PPM)													
WEIGHT (POUNDS)													
SEWAGE PLANT SURFACE													
VOLUME (GAL. IN 1000)	685	581	529	723	1,018	612	1,029	779		801	675	773	8,205
HYDROGEN-ION CONC. (PH)	7.5	7.6	7.6	7.4	7.3	7.4	7.4	7.5		7.5	7.5	7.5	7.5
CHLORIDE ION													
CONCENTRATION (PPM)													
WEIGHT (POUNDS)													
HYPOCHLORITE													
CONCENTRATION (PPM)	8.38	8.53	9.87	7.21	7.17	2.91							
WEIGHT (POUNDS)	48	41	44	44	61	15							
HYPOCHLORITE ION													
CONCENTRATION (PPM)													
WEIGHT (POUNDS)													

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

SCHED. NO. INF6102-6

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 04/22/77

TIA INDUSTRIAL WASTE SUMMARY
FCF JANUARY THROUGH DECEMBER 1976

PG 1 FPT 106-1
TPA

DISPOSAL OR STORAGE LOCATION TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH												TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
CFA LANDFILL													
DISPSEC WASTE													
1 Y SOLID	226.0	305.0	216.0	266.0	210.0	140.0	280.0	140.0	15.0	210.0	205.0	240.0	2,455.0
2 Y SOLID	3.0	11.0	12.0	42.0	6.0	3.0				6.0			83.0
3 Y SOLID			12.0										12.0
4 Y SGLID	3.0					6.0							9.0
CFA SCRAPYARD													
DISPSEC WASTE													
5 Y SOLID										6.0			6.0
STORED WASTE													
4 Y SOLID								3.0					3.0
GRAND TOTALS													
DISPSEC WASTE													
1 Y SOLID	228.0	305.0	216.0	266.0	210.0	140.0	280.0	140.0	15.0	210.0	205.0	240.0	2,455.0
2 Y SOLID	3.0	11.0	12.0	42.0	6.0	3.0				6.0			83.0
3 Y SOLID			12.0										12.0
4 Y SOLID	3.0					6.0							9.0
5 Y SGLID										6.0			6.0
STORED WASTE								3.0					3.0
4 Y SOLID													

TFA INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1976PG 1 PPT 106-1
TR8

DISPUSAL OR STORAGE LOCATION TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

END OF SCHED. NO. INF6162-B

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

TRA WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 FPT 107-I
TRA

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO.													TOTALS & AVERAGES
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
WATER DATA													
1 WATER PUMPED (GAL)	1,172	17,500	26,320		4,078	947	117,100	94,670	61,020	115,600	92,930	82,470	613,807
3 WATER PUMPED (GAL)			121						5,045	2,607		44	7,817
4 WATER PUMPED (GAL)	97,050	68,000	63,160	77,730	95,380	78,230	30,700	21,280	41,720	34,080	22,100	49,640	679,070
TOTAL WATER PUMPED (GAL)	98,222	85,621	89,480	77,730	99,458	79,177	147,800	120,995	105,347	149,680	115,074	132,110	1,300,694
WATER DISPOSAL													
AIR (GAL)	26,260	25,440	21,810	17,650	12,650	22,350	24,530	16,310	23,920	46,860	20,500	11,740	274,020
SURFACE (GAL)	* 19,460	14,800	22,530	19,480	33,000	15,390	60,030	57,350	28,870	43,300	49,510	67,690	431,410
SUBSURFACE (GAL)	40,520	33,210	34,810	30,760	40,130	32,000	49,520	36,050	41,580	44,370	33,370	40,740	457,060
SEWAGE DATA													
BUILT VOL. (GAL)	685	581	529	723	1,018	612	1,029	779	595	801	675	773	8,800
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)	62.0	44.7	74.9	73.3	57.1	26.9	50.2	46.2		30.1	50.9	60.6	52.4
FINAL CONC. (PPM)	23.5	25.5	24.4	17.6	14.6	19.3	17.9	12.9		8.6	14.6	16.9	17.8
% REMOVED	62.1	43.0	67.4	76.0	74.4	28.3	64.3	72.1		71.4	71.3	72.1	66.0
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)	1.6	2.3	.9	12.1	1.0	.9	.4	.7		1.0	1.7	1.7	2.2
FINAL CONC. (PPM)	4.8	4.3	5.0	5.4	49.2	4.2	4.8	4.1		5.0	4.8	5.2	8.8
INCREASED FACTOR	2.0	.9	4.6	-.6	48.2	3.7	11.0	4.9		4.0	1.8	2.1	3.0
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)	3.4	4.3	3.9	2.7	3.5	2.6	3.4	3.3		3.7	2.6	3.4	3.3
FINAL CONC. (ML/L)	.05	.05	.05	.05	.05	.05	.05	.05		.05	.05	.05	.05
* REMOVED	98.5	98.8	98.7	98.1	98.6	98.1	98.5	98.5		98.6	98.1	98.5	98.5
PH-FINAL	7.7	7.5	7.6	7.6	7.7	7.6	7.7	7.6		7.7	7.7	7.7	7.6
TOTAL SEWAGE VOL. (GAL)	685	581	529	723	1,018	612	1,029	779	595	801	675	773	8,800
TOTAL WATER DISPOSED (GAL)	86,925	78,031	79,679	68,613	86,798	70,352	135,109	110,489	94,965	135,331	104,055	120,943	1,171,290
ACCOUNTABILITY (%)	88.5	91.1	89.0	88.3	87.3	88.9	91.4	91.3	90.1	90.4	90.4	91.5	90.1

NOTE: ** IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

TIA FUEL CIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 108-I
TIA

(ALL VALUES = NEAREST THOUSAND)

FUEL/CIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
DIESEL													
VOLUME (GAL)	37	46	38	41	49	47	41	37	42	65	43	39	525
SO2 (LBS)	2	3	2	2	3	3	2	2	2	4	2	2	29
NOX (LBS)													
PARTICULATES (LBS)													
KEROSENE													
VOLUME (GAL)													44
SO2 (LBS)													
NOX (LBS)													2
PARTICULATES (LBS)													
TYPE 5													
VOLUME (GAL)	152	121	107	87	63	46							960
SO2 (LBS)	37	30	26	21	20	11							231
NOX (LBS)													
PARTICULATES (LBS)	6	5	4	4	3	2							38
GRAND TOTALS													
SO2 (LBS)	39	33	28	23	23	14	2	10	8	21	22	37	260
NOX (LBS)													
PARTICULATES (LBS)	6	5	4	4	3	2	2	1	1	3	3	6	40

SCHED. NO. INF6161-C

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

FMT DATE: 04/22/77

WMC WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 FPT 127-1
WMC

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

WELL CR BUILDING NO. / SEWAGE BUILDING NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS &
													AVERAGES

WATER DATA

EBR WATER PUMPED (GAL)	1,018	131	66	116	12	64	104	138	119	163	33	265	2,229
WMC WATER PUMPED (GAL)	1,755	1,716	1,738	1,300	64	61	437	401	114	272	396	2,018	10,274
TOTAL WATER PUMPED (GAL)	2,773	1,847	1,804	1,416	76	125	541	539	233	435	431	2,283	12,503
WATER DISPOSAL													
AIR (GAL)	*												
SURFACE (GAL)	*	212	212	212	212	58	55	431	395	108	266	392	2,012
SUBSURFACE (GAL)	*	2,543	1,616	1,573	1,113	52	92	126	107	151	21	253	7,647

SEWAGE DATA

EJECT VOL. (GAL) 6 6 12

BIOCHEMICAL OXYGEN DEMAND (BOD)

RAW CONC. (PPM)

FINAL CONC. (PPM)

% REMOVED

DISSOLVED OXYGEN (DO)

RAW CONC. (PPM)

FINAL CONC. (PPM)

INCREASED FACTOR

SETTLEABLE SOLIDS (SS)

RAW CONC. (ML/L)

FINAL CONC. (ML/L)

% REMOVED

PH-FINAL

NOTE: "*" IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

WMC WATER USAGE AND DISPOSAL SUMMARY
 FOR JANUARY THROUGH DECEMBER 1976

PAGE 2 RPT 127-1
 WMC

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

WELL OF BUILDING NO. / SEWAGE BUILDING NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
SEWAGE DATA													
WATER USED VOL. (GAL)	12	12	12	12	12	12	12	12	12	12	12	12	120
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH-FINAL													
WATER USED VOL. (GAL)	6	6	6	6	6	6	6	6	6	6	6	6	60
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH-FINAL													
TOTAL SEWAGE VOL. (GAL)	18	18	18	18	18	18	18	18	18	18	18	6	192
TOTAL WATER DISPOSED (GAL)	2,773	1,846	1,803	1,343	76	125	541	539	233	435	419	2,271	12,404
ACCOUNTABILITY (%)	100.0	99.9	99.9	94.8	100.0	100.0	100.0	100.0	100.0	100.0	97.2	99.5	99.2

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PG L PPT 128-I
AMC

WMC FUEL CIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

(ALL VALUES = NEAREST THOUSAND)

FUEL CIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
----------------------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	--------

TYPE 2													
VOLUME (GAL)	2	2	1									6	6
SO2 (LBS)													
NOX (LBS)													
PARTICULATES (LBS)													17

GRAND TOTALS

SC2 (LBS)	
NUX (LBS)	
PARTICULATES (LBS)	

PBF LIQUID DISPOSED SUBSTANCES SUMMARY
 FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 135-1
 PBF-L

AREA GRAN TOTALS SUBSTANCE													ANNUAL TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
BETZ CIANOCIC 154 WEIGHT (POUNDS)						100							100
BETZ 105 WEIGHT (POUNDS)				1									1
CHLORIDE ION WEIGHT (POUNDS)													
CHROMATE ION WEIGHT (POUNDS)								42		6	37	14	99
HPC WEIGHT (POUNDS)								20		10	8	4	42
PHOSPHATE ION WEIGHT (POUNDS)								37		5	32	12	86
POLYHYDROXYCARBON WEIGHT (POUNDS)								12		6	5	3	26
SODIUM ION WEIGHT (POUNDS)	216	287	287	287	144	216	144	255	72	80	103	703	2,794
SODIUM PHOSPHATE WEIGHT (POUNDS)													
SULFATE ION WEIGHT (POUNDS)	426	396	485	441	396	485	176	295	88	92	114	715	4,109
SULFITE ION WEIGHT (POUNDS)					1						1		2
ZINC ION WEIGHT (POUNDS)								7		1	6	2	16

SCHED. NO. INFO166-U

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PUN DATE: 04/22/77

PAF LIQUID DISPOSAL SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 2 PPT L35-1
PBF-L

RELEASE POINT DESCRIPTION SUBSTANCE													ANNUAL TOT & AVE
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
CHEM DISPOSAL WELL SURFACE VOLUME (GAL. IN 1000) HYDROGEN-ICN CONC. (PPM)	15	20	20	20	10	15	10	15	5	83	5	40	258
BETZ DIAMERIC 194 CONCENTRATION (PPM) WEIGHT (POUNDS)					1198±29								46.45 100
					100								
BETZ 109 CONCENTRATION (PPM) WEIGHT (POUNDS)			8±99										.70 1
			1										
CHLORIDE ICN CONCENTRATION (PPM) WEIGHT (POUNDS)											8±63		.17
CHROMATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)					5.25	336±48			8±51	874±85	52±06		45.94 99
					42				6	37	14		
HPC CONCENTRATION (PPM) WEIGHT (POUNDS)						159±77			14±44	197±72	12±73		19.74 42
						20			10	8	4		
PHOSPHATE ICN CONCENTRATION (PPM) WEIGHT (POUNDS)						298±97			7±56	111±12	17±31		40.67 86
						37			5	32	12		
POLYHYDROXYCARBON CONCENTRATION (PPM) WEIGHT (POUNDS)						95±86			8±66	118±93	7±65		11.84 26
						12			6	5	3		
SODIUM ION CONCENTRATION (PPM) WEIGHT (POUNDS)	1722±55	1722±55	1722±55	1722±55	1722±55	1722±55	1725±29	2038±88	1722±55	115±00	2477±44	2105±35	1,297.67 2,793
	216	287	287	287	144	216	144	255	72	80	103	702	
SULFATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	2402.07	2375.59	2903.49	2639.54	4751.17	3871.33	2111.63	2155.40	2111.63	133.35	2742.84	2141.98	1,908.67 4,109
	426	396	485	441	396	485	176	295	88	92	114	715	
ZINC ION CONCENTRATION (PPM) WEIGHT (POUNDS)									53±44	1±35	138±95	6±68	7.27 16
									7	1	6	2	

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

PBF LIQUID DISPOSEE SUBSTANCES SUMMARY
 FOR JANUARY THROUGH DECEMBER 1976

PG 3 RPT 135-I
 PBF-L

RELEASE POINT DESCRIPTION SUBSTANCE	ANNUAL												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT & AVE
WARM WASTE WELL VOLUME (GAL. IN 1000) HYDROGEN-ION CONC. (PH)	325	365	321	302	301	296	292	316	138	451	232	318	3,707
SODIUM ION CONCENTRATION (PPM) WEIGHT (POUNDS)					±18					±15		±98	.04
SODIUM PHOSPHATE CONCENTRATION (PPM) WEIGHT (POUNDS)						±96				±03		±05	.01
SULFITE ION CONCENTRATION (PPM) WEIGHT (POUNDS)					±31	±01				±24		±13	.07
					1					1		2	

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

SCHED. NO. INF6102-H

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PBF INDUSTRIAL WASTE SUMMARY
FFF JANUARY THROUGH DECEMBER 1976PG 1 PPT 136-1
PBF

DISPOSAL OR STORAGE LOCATION TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CFA LANDFILL DISPOSED WASTE L Y SOLID													24.0
GRAND TOTALS DISPOSED WASTE L Y SOLID													24.0

SCHED. NO. INF6161-C

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 04/22/77

PBF WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 137-1
PBF

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO.													TOTALS & AVERAGES
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
WATER DATA													
1 WATER PUMPED (GAL)	381	15	426	295	486	666	702	619	69	351	532	445	5,487
2 WATER PUMPED (GAL)	387	557	94	280	298	281	198	690	141	589	524	245	4,284
TOTAL WATER PUMPED (GAL)	768	572	520	575	784	947	900	1,309	210	1,440	1,056	690	9,771
WATER DISPOSAL AIR (GAL)	118	29	96	45	93	143				147	75	87	833
SURFACE (GAL)	*	418	463	64	322	311	311	380	331	143	534	287	358
SUBSURFACE (GAL)	*												
SEWAGE DATA													
619 BUILD VOL. (GAL)	33	33	45	45	45	45	45	45	45	45	45	45	516
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
* REMOVED													
PH-FINAL													

NOTE: ** IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

PBF WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 2 PFT 137-1
PBF

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

WELL OF BUILDING NO. / SEWAGE BUILDING NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
SEWAGE DATA													
620 EQUIV VCL. (GAL)	7	7	7	7	3	7	7	7	7	7	7	7	80
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH-FINAL													
TOTAL SEWAGE VOL. (GAL)	40	40	52	52	48	52	52	52	52	52	52	52	596
TOTAL WATER DISPOSED (GAL)	576	532	212	419	452	506	432	383	195	733	414	497	5,351
ACCOUNTABILITY (%)	75.0	93.0	40.8	72.9	57.7	53.4	48.0	29.3	92.9	50.9	39.2	72.0	54.9

SCHED. NO. INF6164-C

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

FMT DATE: 04/22/77

PBF FUEL CIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 138-1
PBF

(ALL VALUES = NEAREST THOUSAND)

FUEL CIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
DIESEL													
VOLUME (GAL)	3		2		1	3						2	11
SO2 (LBS)													
NOX (LBS)													
PARTICULATES (LBS)													
TYPE 2													
VOLUME (GAL)	12	3	6	3						1	2	5	38
SO2 (LBS)													
NOX (LBS)													
PARTICULATES (LBS)													
GRAND TOTALS													
SO2 (LBS)													
NOX (LBS)													
PARTICULATES (LBS)													

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 INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 04/22/77

ARA WATER USAGE AND DISPOSAL SUMMARY
 FOR JANUARY THROUGH DECEMBER 1976

PG 1 PPT 147-1
APB

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
2 WATER PUMPED (GAL)	1,098	945	965	1,219	943	1,136	1,218	1,117	1,121	1,160	1,212	1,617	13,751
3 WATER PUMPED (GAL)	2,219	2,043	2,308	2,085	1,529	1,481	2,095	1,777	1,029	288	666	2,086	19,686
TOTAL WATER PUMPED (GAL)	3,317	2,988	3,353	3,304	2,472	2,617	3,313	2,894	2,150	1,448	1,878	3,703	33,437
WATER DISPOSAL													
AIR (GAL)	*												
SURFACE (GAL)	*												
SLBSURFACE (GAL)	*	3,143	2,814	3,179	3,190	2,298	2,443	3,139	2,720	1,976	1,274	1,704	3,529
SEWAGE DATA													
BUILD VOL. (GAL)	*	174	174	174	174	174	174	174	174	174	174	174	2,088
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH-FINAL													
TOTAL SEWAGE VOL. (GAL)	174	174	174	174	174	174	174	174	174	174	174	174	2,088
TOTAL WATER DISPOSAL (GAL)	3,317	2,988	3,353	3,304	2,472	2,617	3,313	2,894	2,150	1,448	1,878	3,703	33,437
ACQUISITABILITY (%)	100.0												

NOTE: ** IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

TAN LIQUID DISPOSAL SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 155-1
TAN-L

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
CALCIUM ION WEIGHT (POUNDS)					41								41
CHLORIDE ION WEIGHT (POUNDS)	3,641	4,490	3,853	6,918	941	2,184	2,397	2,033	91	1,920	2,852	1,365	32,585
HYDROCHLORITE ION WEIGHT (POUNDS)					104								104
PHOSPHATE ION WEIGHT (POUNDS)	19	148		17	13	38	47	35	10	89	105	135	656
SODIUM ION WEIGHT (POUNDS)	2,798	3,308	2,908	5,382	885	1,641	1,736	1,430	130	1,385	2,094	1,327	25,074
SULFATE ION WEIGHT (POUNDS)	437	883	355	935	264	159	942	123		164	260	715	5,237
SULFITE ION WEIGHT (POUNDS)	187	56	190	300	63	95	97	54	28	89	93	342	1,594

TAN LIQUID DISPOSED SUBSTANCES SUMMARY
 FOR JANUARY THROUGH DECEMBER 1976

PG 2 RPT 155-1
TAN-L

RELEASE POINT DESCRIPTION SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOT & AVE
DISPOSAL POND SURFACE VOLUME (GAL. IN 1000) HYDROGEN-ION CONC. (PH)	419	399	536	372	505	672	612	785	407	351	312	1,126	6,496
CALCIUM ION CONCENTRATION (PPM) WEIGHT (POUNDS)				13.10									.75 41
CHLORIDE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	695.98	856.21	538.19	1768.95		492.37	320.79	231.72		273.42	815.68	67.80	410.98 22,269
HYPOCHLORITE ION CONCENTRATION (PPM) WEIGHT (POUNDS)				33.65									1.93 104
PHOSPHATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)		40.18				4.46	4.89	3.82	1.97	18.29	17.21	1.12	7.02 382
SODIUM ION CONCENTRATION (PPM) WEIGHT (POUNDS)	471.25	574.47	478.13	1181.53		159.20	218.57	159.30	2.04	260.81	551.66	18.23	287.52 15,580
SULFATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)		142.89	47.32		50.16	18.87	26.70	8.08				20.30	61.51 1,850
SULFITE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	36.36		28.42	61.36		11.33	12.43	1.21	1.87	17.37	16.10	27.93	17.94 971
LOFT DISPOSAL POND SURFACE VOLUME (GAL. IN 1000) HYDROGEN-ION CONC. (PH)	4,228	8,465	1,104	6,206	3,117	4,647	5,868	917	338	4,377	8,911	733	48,911
CHLORIDE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	24.08	18.04	69.16	20.50	22.16	4.69	8.05	27.76	32.28	11.63	5.71	62.40	16.06 6,553
PHOSPHATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	.53	.20			.02	.01	.12	.28	.18	.05	.10	.23	.20 82

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

TAN LIQUID DISPOSED SUBSTANCES SUMMARY
FCP JANUARY THROUGH DECEMBER 1976

PG 3 PPT 155-1
TAN-L

RELEASE POINT DESCRIPTION SUBSTANCE													ANNUAL	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT & AVE	
SODIUM ION CONCENTRATION (PPM) WEIGHT (POUNDS)	25.55 901	16.21 1,145	52.61 485	27.56 1,427	22.07 569	6.38 247	8.01 392	21.52 165	43.82 124	10.41 381	5.35 397	50.93 312	16.08 6,565	
SULFATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	19.88 384	5.02 355	9.86 91	17.09 865			15.99 783			3.54 129	1.84 137	4.48 27	6.84 2,791	
SULFITE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	1.69 60	.79 56		.90 46			.04 2		1.66 22	.18 7	.24 18	4.05 25	.57 236	
LOFT DISPOSAL WELL	SUBSURFACE													
VOLUME (GAL. IN 1000)	292	324	58	338	2,650	3,691	3,246	2,947	2,836	2,318	3,366	151	22,217	
HYDROGEN-ICN CONC. (PH)														
LOFT SEPTIC TANK	SUBSURFACE													
VOLUME (GAL. IN 1000)	45	45	45	45	45	45	45	45	45	45	45	45	45	540
HYDROGEN-ICN CONC. (PH)														
LPT DISPOSAL WELL	SUBSURFACE													
VOLUME (GAL. IN 1000)	942	700	700	935	740	952	1,599	1,752	1,721	2,395	2,215	1,805	16,456	
HYDROGEN-ICN CONC. (PH)														
CHLORIDE ICN CONCENTRATION (PPM) WEIGHT (POUNDS)	56.30 364	62.30 364	62.32 364	46.65 364	58.98 364	45.82 364	27.28 364	20.75 303		15.18 303	16.41 303	20.44 303	27.39 3,760	
PHOSPHATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)					2.02 12	1.57 12	.94 12	.11 2		1.67 33	2.82 52	4.44 67	1.40 190	
SODIUM ION CONCENTRATION (PPM) WEIGHT (POUNDS)	31.83 250	42.83 250	49.09 287	36.75 267	57.93 296	34.96 278	26.81 278	15.24 223		12.08 241	14.13 261	18.57 280	21.34 2,931	
SULFATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	6.72 53	9.05 53	9.05 53	6.40 50	8.56 53	6.66 53	3.96 53	4.82 70		1.76 35	3.81 70	3.51 53	4.34 596	
SULFITE ION CONCENTRATION (PPM) WEIGHT (POUNDS)				10.87 63	8.15 63	10.25 63	4.00 32	2.38 32	.43 6		1.59 32	1.72 33	4.22 63	2.83 387

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

TAN INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 SPT 156-1
TAN

DISPOSAL OR STORAGE LOCATION TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
CFA LAND FILL DISPOSED WASTE 1 Y SOLID 2 Y SOLID					21.0								21.0
CFA LANDFILL DISPOSED WASTE 1 Y SOLID 2 Y SOLID 4 Y SOLID 8 P SOLID MERCURY 8 P SOLID POWDERED BORIC ACID	200.0	280.0	360.0	360.0		240.0	240.0	4.4		150.0	220.0	186.0	2,240.4
	9.0	7.0	68.0	78.0		11.0	17.0	6.0		32.0	48.0	40.0	316.0
						3.0	12.0	6.0					21.0
CFA SCRAPYARD STORED WASTE 4 Y SOLID				1.0									1.0
CFA SCRAPYARD#2 STORED WASTE 5 Y SOLID	3.0												3.0
GRAND TOTALS DISPOSED WASTE 1 Y SOLID 2 Y SOLID 4 Y SOLID 8 P SOLID	200.0	280.0	360.0	360.0	21.0	240.0	240.0	4.4		150.0	220.0	186.0	2,240.4
	9.0	7.0	68.0	78.0		11.0	17.0	6.0		32.0	48.0	40.0	337.0
						3.0	12.0	6.0					21.0
STORED WASTE 4 Y SOLID 5 Y SOLID			3.0		1.0								1.0
													9.0
													9.0
													3.0

TAN WATER USAGE AND DISPOSAL SUMMARY
 FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 157-T
 TAN

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
L01 WATER PUMPED (GAL)	2,534	5,062	1,038	4,725	4,253	4,414	4,793	3,137	2,014	3,465	6,254	1,383	43,072
L02 WATER PUMPED (GAL)	2,633	4,016	680	3,060	3,636	4,485	4,984	3,174	2,106	3,475	6,213	1,351	39,813
LPT WATER PUMPED (GAL)	942	700	700	935	740	952	1,599	1,752	1,721	2,395	2,215	1,805	16,456
TF1 WATER PUMPED (GAL)	1,563	1,344	1,426	1,688	1,458	1,952	2,383	2,164	1,503	1,515	1,193	1,300	19,489
TF2 WATER PUMPED (GAL)	82	53	132	107	100	133	129	336	109	710	135	208	2,234
TOTAL WATER PUMPED (GAL)	7,754	11,175	3,976	10,515	10,187	11,936	13,888	10,563	7,453	11,560	16,010	6,047	121,064
WATER DISPOSAL													
AIR (GAL)	*												
surface (GAL)	*	4,383	8,592	1,255	6,276	3,198	4,855	5,331	1,268	541	4,377	9,019	1,559
SLBSURFACE (GAL)	*	1,234	1,024	758	1,273	3,390	4,643	5,457	4,699	4,557	4,713	5,581	1,956
													39,285
SEWAGE DATA													
623 BUILD VCL. (GAL)	264	272	384	303	424	486	537	433	203	351	204	301	4,162
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)	195.5	127.0	155.0	164.5	165.3	101.0	128.7	83.2		196.7	170.8	197.6	153.2
FINAL CONC. (PPM)	37.1	26.0	26.0	36.1	40.4	17.4	23.9	18.6		32.0	36.7	26.2	29.1
% REMOVED	81.0	79.5	83.2	78.1	75.6	82.8	81.4	77.6		83.7	78.5	86.7	81.0
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)	.1		.1	.1									.1
FINAL CONC. (PPM)	.1	.8	.9	.1	.6	2.5	1.4	1.3		.6	1.1	1.2	1.0
INCREASED FACTOR			8.0										
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													4.0
FINAL CONC. (ML/L)	.05												2.6
% REMOVED													.05
PH-FINAL	7.5	7.6	7.5	7.5	7.5	7.6	7.5	7.6	7.4	7.5	7.6	7.6	7.5

NOTE: ** IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

TAN WATER USAGE AND DISPOSAL SUMMARY
 FOR JANUARY THROUGH DECEMBER 1976

PG 2 RPT 157-I
 TAN.

(ALL VOLUMES * NEAREST THOUSAND GALLONS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
SEWAGE DATA													
736 BUILD VOL. (GAL) *	45	45	45	45	45	45	45	45	45	45	45	45	540
EIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH-FINAL													
TOTAL SEWAGE VOL. (GAL)	309	317	429	348	469	531	582	478	248	396	249	346	4,702
TOTAL WATER DISPOSED (GAL)	5,926	9,933	2,442	7,897	7,057	10,029	11,370	6,445	5,346	9,486	14,849	3,861	94,641
ACCOUNTABILITY (%)	76.4	88.9	61.4	75.1	69.3	84.0	81.9	61.0	71.7	82.1	92.7	63.8	78.2

NOTE: ** IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

TAN FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
 FOR JANUARY THROUGH DECEMBER 1976

PG 1 PPT 158-I
 TAN

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
KEROSENE													
VOLUME (GAL)			84		360								444
SO2 (LBS)													
NOX (LBS)													
PARTICULATES (LBS)													
TYPE 2													
VOLUME (GAL)	14	11	11	7	9	7	3			6	9	7	84
SO2 (LBS)													
NOX (LBS)													
PARTICULATES (LBS)													
TYPE 5													
VOLUME (GAL)	98	90			61	46	37	47	19	31	85	106	620
SO2 (LBS)	24	22			15	11	9	12	5	8	21	26	153
NOX (LBS)													
PARTICULATES (LBS)													
GRAND TOTALS													
SO2 (LBS)	24	22			15	11	9	12	5	8	21	26	153
NOX (LBS)													
PARTICULATES (LBS)													

SCHED. NO. INF6166-C

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INTEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 04/22/77

CFA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 165-I
CFA-L

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
AUTOMATIC CLEANERS WEIGHT (POUNDS)	360	376	392	400	368	376	384	392	360	400	368	376	4,552
BLEACH WEIGHT (POUNCES)	30	30	35	30	35	31							191
CALCIUM ION WEIGHT (POUNCES)							11	7	7	11	9	14	59
CHLORIDE ION WEIGHT (POUNCES)	1,214	1,214	1,214	1,214	1,214	1,214	1,241	1,268	1,265	1,260	1,269	1,281	14,868
HYPOCHLORITE WEIGHT (POUNDS)	81	72	88	75	73	20							409
HYPOCHLORITE ION WEIGHT (POUNDS)							39	79	75	67	80	98	438
KWIK KLEEN WEIGHT (POUNCES)	100	100	100	100	100	100	100	100	100	100	100		1,100
LAUNDRY PRODUCTS WEIGHT (POUNDS)	315	303	425	455	491	398	403	336	195	863	510	518	5,212
PHOSPHATE WEIGHT (POUNDS)													100
SOAP WEIGHT (POUNDS)	502	400	400	350	350	300	400	400	300	400	500	450	4,752
SODIUM ION WEIGHT (POUNCES)	786	786	786	786	786	786	786	786	786	786	786	786	9,432

CFA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 2 PPT 165-1
CFA-L

RELEASE POINT DESCRIPTION SUBSTANCE	CFA LIQUID DISPOSED SUBSTANCES SUMMARY FOR JANUARY THROUGH DECEMBER 1976												ANNUAL TOT & AVE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
SEWAGE PLANT SUBSURFACE VOLUME (GAL. IN 1000) HYDROGEN-ION CONC. (PH)	3,520 7.7	3,232 7.7	3,782 7.7	3,497 7.7	3,710 7.6	3,930 7.6	4,187 7.6	3,958 7.6	3,377 7.6	3,197 7.7	3,516 7.7	3,668 7.6	43,574 7.7	
AUTOMATIC CLEANERS CONCENTRATION (PPM) WEIGHT (POUNDS)	12.26 360	11.94 376	12.42 392	13.71 400	11.89 368	11.46 376	10.92 384	11.87 392	12.77 360	15.99 400	12.54 368	12.28 376	12.52 4,552	
BLEACH CONCENTRATION (PPM) WEIGHT (POUNDS)	1.02 30	1.11 30	1.11 35	1.03 30	1.13 35	1.95 31							.53 191	
CALCIUM ION CONCENTRATION (PPM) WEIGHT (POUNDS)								1.30 11	1.21 7	1.25 7	1.50 11	1.30 9	1.46 14	.16 59
CHLORIDE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	41.31 1,214	45.00 1,214	38.45 1,214	41.55 1,214	39.20 1,214	37.00 1,214	35.50 1,241	38.39 1,268	44.89 1,265	41.22 1,260	43.25 1,269	41.86 1,281	40.88 14,868	
HYPOCHLORITE CONCENTRATION (PPM) WEIGHT (POUNDS)	2.77 81	2.66 72	2.78 88	2.59 75	2.35 73	1.62 20							1.13 409	
HYPOCHLORITE ION CONCENTRATION (PPM) WEIGHT (POUNDS)								1.12 39	2.40 79	2.66 75	2.52 67	2.74 80	3.21 98	1.21 438
KWIK KLEEN CONCENTRATION (PPM) WEIGHT (POUNDS)	3.40 100	3.71 100	3.17 100	3.43 100	3.23 100	3.05 100	2.86 100	3.03 100	3.55 100	3.75 100	3.41 100		3.03 1,100	
LAUNDRY PRODUCTS CONCENTRATION (PPM) WEIGHT (POUNDS)	10.72 315	11.23 303	13.48 425	15.61 455	15.87 491	12.14 398	11.53 403	10.16 336	9.94 195	32.37 863	17.38 510	16.94 518	14.34 5,212	
PHOSPHATE CONCENTRATION (PPM) WEIGHT (POUNDS)													3.27 100	.28 100
SOAP CONCENTRATION (PPM) WEIGHT (POUNDS)	17.09 502	14.83 400	12.67 400	11.99 350	11.30 350	9.15 300	11.65 400	12.11 400	10.65 300	14.99 400	17.04 500	14.70 450	13.07 4,752	

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

SCHED. NO. INF6166-3

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

PUN DATE: 06/22/77

CFA LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976PG 3 RPT 165-1
CFA-L

RELEASE POINT DESCRIPTION SUBSTANCE													ANNUAL TOT & AVE
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
SCODIUM ION CONCENTRATION (PPM) WEIGHT (POUNDS)	26.77 786	29.16 786	26.92 786	26.95 786	25.60 786	23.98 786	22.51 786	23.81 786	27.90 786	29.48 786	26.80 786	25.69 786	25.95 9,432

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

CFA INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 166-I
CFA

DISPOSAL OR STORAGE LOCATION TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH												TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
CFA LANDFILL DISPENSED WASTE													
1 Y SOLID	226.0	148.0	213.0	178.0	110.0	175.0	166.0	82.0		226.0	130.0	240.0	1,894.0
2 Y SOLID	72.0	28.0	52.0	38.0	57.0	75.0	105.0	60.0		64.0	45.0	32.0	628.0
3 Y SOLID		58.0	24.0	8.0	12.0		36.0			24.0			162.0
4 Y SOLID	3.0	8.0			3.0	3.0				9.0	6.0		32.0
CFA SCRAP YD DISPENSED WASTE													
4 Y SOLID						6.0		7.0	12.0				25.0
CFA SCRAP YD1 STORED WASTE													
4 Y SOLID		3.0											3.0
CFA SCRAP YD2 STORED WASTE													
4 Y SOLID		3.0											3.0
CFA SCRAP YD3 STORED WASTE													
4 Y SOLID				3.0									3.0
GRAND TOTALS													
DISPENSED WASTE													
1 Y SOLID	226.0	148.0	213.0	178.0	110.0	175.0	166.0	82.0		226.0	130.0	240.0	1,894.0
2 Y SOLID	72.0	28.0	52.0	38.0	57.0	75.0	105.0	60.0		64.0	45.0	32.0	628.0
3 Y SOLID		58.0	24.0	8.0	12.0		36.0			24.0			162.0
4 Y SOLID	3.0	8.0			9.0	3.0	7.0	12.0		9.0	6.0		57.0
STORED WASTE													
4 Y SOLID		6.0				3.0							9.0

CFA WATER USAGE AND DISPOSAL SUMMARY
 FEB JANUARY THROUGH DECEMBER 1976

PG 1 OPT 167-1
 CFA

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVGAREGES
WATER DATA													
1 WATER PUMPED (GAL)	5,849	4,666	4,205	983	3	601	3,561	2,139	3,795	5,424	2,241	543	34,610
2 WATER PUMPED (GAL)	3	133	1	5,275	6,239	7,408	15,090	10,550	4,334		2,445	12,280	63,758
TOTAL WATER PUMPED (GAL)	5,852	4,799	4,206	6,258	6,242	8,009	18,651	12,689	8,129	5,424	4,686	12,823	97,768
WATER DISPOSAL													
AIR (GAL)	*												
SURFACE (GAL)	*	117	784	21	276	1,240	2,648	9,987	6,200	1,875	12	58	458
SLBSURFACE (GAL)	*	143	140	154	83	88	94	94	192	57	42	95	1,303
SEWAGE DATA													
691 BUILC VOL. (GAL)	3,377	3,100	3,627	3,414	3,621	3,836	4,092	3,765	3,320	3,155	3,422	3,547	42,276
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)	69.8	61.2	95.0	83.5	78.2	60.9	68.0			57.0	36.6	57.0	66.7
FINAL CONC. (PPM)	3.4	6.0	6.0	7.2	7.0	4.9	3.8			3.0	1.9	2.7	4.6
% REMOVED	95.1	90.2	93.7	91.4	91.0	92.0	94.4			94.7	94.8	95.3	93.1
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)	1.2	1.9	.4	1.5	1.1	1.9	.4			2.1	2.4	1.0	1.4
FINAL CONC. (PPM)	6.4	7.3	6.1	6.0	3.5	5.3	6.4			5.4	4.4	5.4	5.6
INCREASED FACTOR	4.3	2.8	14.3	3.0	2.2	1.8	15.0			1.6	.8	4.4	3.0
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)	4.0	4.0	2.9	3.4	4.1	3.8	4.7			5.1	3.6	2.9	3.9
FINAL CONC. (ML/L)	.05	.05	.06	.23	.05	.05	.05			.05	.05	.05	.07
% REMOVED	98.8	98.8	97.9	93.2	98.8	98.7	98.9			99.0	98.6	98.3	98.2
PH-FINAL													
TOTAL SEWAGE VOL. (GAL)	3,377	3,100	3,627	3,414	3,621	3,836	4,092	3,765	3,320	3,155	3,422	3,547	42,276
TOTAL WATER DISPOSED (GAL)	3,637	4,024	3,802	3,773	4,949	6,378	14,173	10,157	5,252	3,209	3,575	4,126	67,055
ACCOUNTABILITY (%)	62.1	83.9	90.4	60.3	79.3	79.6	76.0	80.0	64.6	59.2	76.3	32.2	68.6

NOTE: ** IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

CFA FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
 FOR JANUARY THROUGH DECEMBER 1976

PAGE 1 RPT 168-I
 CFA

(ALL VALUES = NEAREST THOUSANDS)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
TYPE 2													
VOLUME (GAL)	40	70	53	47	34	22	8	24	18	37	67	72	492
SO2 (LBS)	2	4	3	3	2	1		1	1	2	4	4	27
NOX (LBS)													
PARTICULATES (LBS)													
GRAND TOTALS													
SO2 (LBS)	2	4	3	3	2	1		1	1	2	4	4	27
NOX (LBS)													
PARTICULATES (LBS)													

SCHED. NO. INF6166-A

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 04/22/77

CPP AIRBORNE DISPERSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 204-T
CPP-A

SUBSTANCE	ANNUAL TOTALS											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
NITROGEN DIOXIDE WEIGHT (POUNDS)	48,500	242,700	243,000									534,200

CPP AIRBORNE DISPERSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 2 PPT 204-I
CPP-A

RELEASE POINT DESCRIPTION SUBSTANCE	JAN JUL	FEB AUG	MAR SEP	APR OCT	MAY NOV	JUN DEC	ANNUAL TOT & AVE
STACK 708 VOLUME (CU.FT. IN 1000)	0 0	0 0	0 0	4,463,997 0	4,463,597 0	4,463,907 0	13,391,901
NITROGEN DIOXIDE CONCENTRATION (PPM)	.00 .00	.00 .00	.00 .00	.11 .00	.81 .00	.81 .00	.64
WEIGHT (POUNDS)	0 0	0 0	0 0	48,500 0	242,700 0	243,000 0	534,200

NOTE: UNDERLINE = CALCULATED CONCENTRATION

SCHED. NO. INF6168-C

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 04/22/77

CPP LIQUID DISPOSED SUBSTANCES SUMMARY
FCF JANUARY THROUGH DECEMBER 1976

PG 1 PPT 205-1
CPP-L

AREA GRAND TOTALS SUBSTANCE													ANNUAL TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
CALCIUM ION WEIGHT (POUNDS)	7	7	9	9	7	2	13			7	12	11	84
CHLORIDE ION WEIGHT (POUNDS)	43,907	46,927	40,278	52,643	71,649	71,011	57,072	62,455	48,810	26,531	37,178	46,829	605,290
HYPPOCHLORITE WEIGHT (POUNDS)	19	17	22	22	17	6							103
HYPPOCHLORITE ION WEIGHT (POUNDS)							33			17	31	28	109
NITRATE ION WEIGHT (POUNDS)	7,458	5,353	4,529	9,918	10,085	18,098	10,633	11,896					77,970
SODIUM ION WEIGHT (POUNDS)	28,571	29,976	8,217	33,315	40,340	37,076	10,123	37,671					225,289
TDS WEIGHT (POUNDS)	129,516	128,469	108,660	158,438	192,368	179,098	157,699	191,662	143,605	92,042	107,032	125,029	1,713,618

CPP LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 2 PPT 205-1
CPP-L

RELEASE POINT DESCRIPTION SUBSTANCE													ANNUAL	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT & AVE	
DISPOSAL WELL SUBSURFACE														
VOLUME (GAL. IN 1000)	25,220	21,420	21,490	30,530	36,140	37,720	36,060	39,670	30,840	24,500	23,490	27,290	354,370	
HYDROGEN-ION CONC. (PH)	8.0	7.6	7.6	7.7	7.7	7.7	7.8	7.7		8.4	8.4	8.3		7.9
CHLORIDE ION CONCENTRATION (PPM)	209.00	263.00	225.00	207.00	238.00	226.00	190.00	189.00	190.00	130.00	190.00	206.00	204.68	
WEIGHT (POUNDS)	43,907	46,927	40,278	52,645	71,649	71,011	57,072	62,455	48,810	26,531	37,178	46,829	605,290	
NITRATE ION CONCENTRATION (PPM)	35.50	30.00	25.30	39.00	33.50	57.60	35.40	36.00					26.37	
WEIGHT (POUNDS)	7,458	5,353	4,529	9,918	10,085	18,098	10,633	11,896					77,970	
SODIUM ION CONCENTRATION (PPM)	136.00	168.00	45.00	131.00	134.00	118.00	33.70	114.00					76.18	
WEIGHT (POUNDS)	28,571	29,976	8,217	33,315	40,340	37,076	10,123	37,671					225,289	
TDS CONCENTRATION (PPM)	616.50	720.00	607.00	623.00	639.00	570.00	525.00	580.00	559.00	451.00	547.00	550.00	579.46	
WEIGHT (POUNDS)	129,516	128,469	108,660	158,438	192,368	179,098	157,699	191,662	143,605	92,042	107,032	125,029	1,713,618	
SEWAGE PLANT SUBSURFACE														
VOLUME (GAL. IN 1000)	662	630	710	707	615	750	728	916	797	799	829	846	8,989	
HYDROGEN-ION CONC. (PH)	7.6	7.6	7.5	7.3	7.2	7.3	7.2			7.6	7.5	7.6		7.4
CALCIUM ION CONCENTRATION (PPM)	1.35	1.28	1.45	1.45	1.29	1.39	2.13			1.01	1.76	1.56	1.11	
WEIGHT (POUNDS)	7	7	9	9	7	2	13			7	12	11	84	
HYPOCHLORITE CONCENTRATION (PPM)	3.47	3.28	3.71	3.73	3.30	3.29							1.38	
WEIGHT (POUNDS)	19	17	22	22	17	6							103	
HYPOCHLORITE ION CONCENTRATION (PPM)								5.46						
WEIGHT (POUNDS)								33						
										2.58	4.53	3.99	1.47	
										17	31	28	109	

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

SCHED. NO. INF6162-B

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INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 04/22/77

CPP INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 FPT. 206-I
CPP

DISPUSAL OF STORAGE LOCATION TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
CFA LAND FILL													
DISPOSED WASTE													
1 Y SOLID	210.0	210.0	210.0				185.0						815.0
2 Y SOLID	56.0	56.0	66.0				48.0						246.0
CFA LANDFILL													
DISPOSED WASTE													
1 Y SOLID				210.0	180.0		220.0	120.0		180.0	125.0	130.0	1,165.0
2 Y SOLID				86.0	46.0		40.0	32.0		48.0	32.0	32.0	318.0
GRAND TOTALS													
DISPOSED WASTE													
1 Y SOLID	210.0	210.0	210.0	210.0	180.0	185.0	220.0	120.0		180.0	125.0	130.0	1,980.0
2 Y SOLID	56.0	56.0	66.0	86.0	48.0	48.0	40.0	32.0		48.0	32.0	32.0	564.0

CPP WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 207-I
CPP

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
WATER PUMPED (GAL)	43,180	30,030	32,790	36,000	62,780	50,170	46,210	46,200	42,700	32,530	40,000	40,000	504,590
WATER DISPOSAL													
AIR (GAL)													
SURFACE (GAL) *													
SUBSURFACE (GAL)	25,220	21,420	21,490	30,530	36,140	37,720	36,060	39,670	30,840	24,500	23,490	27,290	354,370
SEWAGE DATA													
BUILD VOL. (GAL)	662	629	710	707	615	750	728	916	797	799	829	846	8,988
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)	128.0	89.7	124.2	122.1	112.2	107.0	130.0			97.9	107.4	114.5	113.3
FINAL CONC. (PPM)	15.5	18.3	19.8	21.6	21.8	20.3	25.1			12.4	21.3	13.9	19.0
% REMOVED	87.9	79.6	84.1	82.3	80.6	81.0	80.7			87.3	80.2	87.9	83.2
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)	3.0	2.9	1.9	2.3	.6	.5	.1			2.4	2.1	3.4	1.9
FINAL CONC. (PPM)	3.6	4.3	3.5	3.6	3.2	2.5	3.2			5.3	4.7	5.5	3.9
INCREASED FACTOR	.2	.5	.8	.6	4.3	4.0	31.0			1.2	1.2	.6	1.1
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)	6.1	7.4	7.5	8.2	4.9	3.6	4.6			4.0	3.7	5.9	5.6
FINAL CONC. (ML/L)				7.30						.05	.05	.05	1.86
% REMOVED				11.0						98.8	98.6	99.2	
PH-FINAL	7.6	7.5	7.5	7.5	7.4	7.3	7.3			7.6	7.5	7.6	7.5
TOTAL SEWAGE VOL. (GAL)	662	629	710	707	615	750	728	916	797	799	829	846	8,988
TOTAL WATER DISPOSED (GAL)	25,882	22,049	22,200	31,237	36,755	38,470	36,788	40,586	31,637	25,299	24,319	28,136	363,358
ACCOUNTABILITY (%)	59.9	73.4	67.7	82.2	58.5	76.7	79.6	87.8	74.1	77.8	60.8	70.3	72.0

NOTE: ** IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

SCHED. NC. INF6164-C

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 INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 04/22/77

CPP FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
 FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 208-I
CPP

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
KERCSENE													
VOLUME (GAL)													
SO2 (LBS)													
NOX (LBS)													
PARTICULATES (LBS)													
TYPE 2													
VOLUME (GAL)	248	250	166	153	169	124	125	125	105	169	151	214	1,999
SO2 (LBS)	14	14	10	9	10	7	7	7	6	10	9	12	115
NOX (LBS)													
PARTICULATES (LBS)													
GRAND TOTALS													
SO2 (LBS)	14	14	10	9	10	7	7	7	6	10	9	12	115
NOX (LBS)													
PARTICULATES (LBS)													

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 INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

NRF AIRBORNE DISPOSED SUBSTANCES SUMMARY
 FOR JANUARY THROUGH DECEMBER 1976

PG 1 PPT 304-1
 NRF-1

RELEASE POINT DESCRIPTION SUBSTANCE	JAN JUL	FEB AUG	MAR SEP	APR OCT	MAY NOV	JUN DEC	ANNUAL TOT & AVE
COOLING TOWERS VOLUME (CU.FT. IN 1000)	1,066 992	915 1,565	1,216 1,519	1,220 1,869	1,509 781	1,934 2,057	15,643

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 04/22/77

NRF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 PPT 305-I
NRF-L

AREA GRAND TOTALS SUBSTANCE													ANNUAL TOTALS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
AMIDES WEIGHT (POUNDS)				25	25			25	100	72	25	194	34	500
CARBONTHIOCYANATES WEIGHT (POUNDS)												39	5	44
CHLORIDE ICN WEIGHT (POUNDS)	54,865	54,158	53,114	24,559	20,896	35,045	35,570	22,637	10,507	5,855	12,070	18,817	351,913	
CHLORHYDRCARBONS WEIGHT (POUNDS)				147	442			80	147		147			963
CHLORSULFONES WEIGHT (POUNDS)				17	17			17	67	48	17	155	26	364
HEXAVALENT CR WEIGHT (POUNDS)	11	19	20		4	4	9			5				72
HYDROCARBONS WEIGHT (POUNDS)												388	55	443
HYDROXYCARBON WEIGHT (POUNDS)				12	24			66	22	22				146
HYDROXYCARBONS WEIGHT (POUNDS)				127	257			114	256	159	126	39	16	1,094
N-HYDROCARBON WEIGHT (POUNDS)				143	197			486	185	270	81	184	23	1,569
NAPHTHA WEIGHT (POUNDS)				5	5			5	20	14	5		1	55
CROCOL 734 WEIGHT (POUNDS)	1,760	624			550	2,050								4,984
PHOSPHATE ION WEIGHT (POUNDS)	1,580	451	235	2,329	554	632	1,723	481	703	552	987	240	10,467	
SILICATE ICN WEIGHT (POUNDS)				7	4			20	22		9	10	7	79
SLIMICIDE A-9 WEIGHT (POUNDS)	400					880								1,280

NRF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 2 RPT 305-I
NRF-L

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
SLIMICIDE C-35 WEIGHT (POUNDS)	168	168			168	168							672
SLIMICIDE J-12 WEIGHT (POUNDS)	348	348			348	348							1,392
SLIMICIDE J-9 WEIGHT (POUNDS)	460	240			480	240							1,440
SODIUM ION WEIGHT (POUNDS)	36,337	31,367	36,273	20,236	20,206	25,599	28,086	13,508	4,464	4,174	11,728	11,879	243,859
SULFATE ION WEIGHT (POUNDS)	25,171	17,571	17,572	137,861	33,299	28,462	62,021	17,505	32,264	24,693	39,340	205,645	645,464
SULFONATES WEIGHT (POUNDS)			175	105			484	530		214	234	166	1,908
TCS WEIGHT (POUNDS)	162,951	144,798				125,576	190,975		66,828		88,471	101,389	884,988
THIHCYRCARBONS WEIGHT (POUNDS)			15	45			8	15		15			98

NRF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 3 PPT 305-1
NRF-L

RELEASE POINT DESCRIPTION SUBSTANCE													ANNUAL TOT & AVG		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
SEWAGE POND SURFACE VOLUME (GAL. IN 1000) HYDROGEN-ION CONC. (PH)	1,371	1,388	1,519	1,164	1,182	1,306	1,988	1,740	953	1,581	1,777	2,048	18,017 9.7		
WASTE DITCH SURFACE VOLUME (GAL. IN 1000) HYDROGEN-ION CONC. (PH)	11,360	9,030	9,941	12,770	10,720	10,840	33,420	6,498	16,240	5,840	11,920	3,220	141,799 6.3		
AMIDES CONCENTRATION (PPM) WEIGHT (POUNDS)				<u>±30</u> 25	<u>±23</u> 25			<u>±29</u> 25	<u>1.85</u> 100	<u>±23</u> 72	<u>±21</u> 25	<u>1.95</u> 194	<u>1.25</u> 34	.42 500	
CARBON THIOCYANATES CONCENTRATION (PPM) WEIGHT (POUNDS)													<u>±39</u> 39	<u>±20</u> 5	.04 44
CHLORIDE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	580.00	720.00	641.40	<u>230.87</u> 24,559	234.00	432.40	<u>127.05</u> 35,370	418.21	<u>17.67</u> 10,507	<u>120.35</u> 5,855	121.56	<u>101.54</u> 12,070	101.54	297.39 351,913	
CHLORHYDRIC ACIDS CONCENTRATION (PPM) WEIGHT (POUNDS)				<u>1.78</u> 147	<u>4.15</u> 442			<u>±29</u> 80	<u>2.72</u> 147		<u>3.02</u> 147			.82 963	
CHLORSULFONES CONCENTRATION (PPM) WEIGHT (POUNDS)				<u>±20</u> 17	<u>±16</u> 17			<u>±06</u> 17	<u>1.24</u> 67	<u>±32</u> 48	<u>±24</u> 17	<u>1.26</u> 155	<u>1.98</u> 26	.31 364	
HEXAVALENT CR CONCENTRATION (PPM) WEIGHT (POUNDS)	.12 11	.25 15	.24 20		.04 4	.04 4	.03 9		.04 5					.06 72	
HYDROCARBONS CONCENTRATION (PPM) WEIGHT (POUNDS)													<u>3.90</u> 388	<u>2.05</u> 55	.37 443
HYDROXYCARBON CONCENTRATION (PPM) WEIGHT (POUNDS)				<u>±14</u> 12	<u>±23</u> 24			<u>±24</u> 66	<u>±41</u> 22	<u>±16</u> 22				.12 146	
HYDROXYCARBONS CONCENTRATION (PPM) WEIGHT (POUNDS)				<u>1.53</u> 127	<u>2.42</u> 257			<u>±91</u> 114	<u>4.12</u> 256	<u>1.17</u> 159	<u>2.60</u> 126	<u>±40</u> 39	<u>±58</u> 16	.92 1,094	

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

NRF LIQUID DISPOSED SUBSTANCES SUMMARY
FCF JANUARY THROUGH DECEMBER 1976

PG 4 PPT 305-I
NRF-L

RELEASE POINT DESCRIPTION SUBSTANCE													ANNUAL TOT & AVE
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
N-HYDROCARBON CONCENTRATION (PPM) WEIGHT (POUNDS)			1.72 143	1.84 197			1.79 486	3.42 185	2.00 270	1.66 81	1.85 184	1.85 23	1.32 1,569
NAPHTHA CONCENTRATION (PPM) WEIGHT (POUNDS)			.06 5	.05 5			.02 5	.31 20	.11 14	.10 5		.05 1	.05 55
GROCOL 734 CONCENTRATION (PPM) WEIGHT (POUNDS)	18.57 1,760	8.28 624			6.15 550	22.66 2,050							4.21 4,984
PHOSPHATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	16.70 1,580	6.00 451	2.84 235	21.85 2,325	6.20 554	7.00 632	6.19 1,723	8.82 481	5.20 703	11.35 552	9.93 987	8.95 240	8.85 10,467
SILICATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)			.09 7	.05 4			.07 20	.41 22		.18 9	.10 10	.26 7	.07 79
SLIMICIDE A-9 CONCENTRATION (PPM) WEIGHT (POUNDS)	4.22 400				9.84 880								1.08 1,280
SLIMICIDE C-35 CONCENTRATION (PPM) WEIGHT (POUNDS)	1.77 168	2.23 168			1.88 168	1.86 168							.57 672
SLIMICIDE J-12 CONCENTRATION (PPM) WEIGHT (POUNDS)	3.67 348	4.62 348			3.69 348	3.85 348							1.18 1,392
SLIMICIDE J-9 CONCENTRATION (PPM) WEIGHT (POUNDS)	5.06 480	3.18 240			5.31 480	2.65 240							1.22 1,440
SODIUM ION CONCENTRATION (PPM) WEIGHT (POUNDS)	384.00 36,337	417.00 31,367	438.04 36,273	190.24 20,236	226.30 20,208	283.50 25,599	100.89 28,086	249.55 13,508	33.00 4,464	85.80 4,174	118.11 11,728	442.86 11,879	202.13 243,859
SULFATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	266.00 25,171	233.60 17,571	212.20 17,572	1296.00 137,861	372.90 33,299	315.20 28,462	223.00 62,081	323.40 17,505	238.50 32,264	507.60 24,693	396.20 39,340	7816.00 209,645	545.46 645,464

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

NPF LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 5 RPT 305-I
NPF-L

RELEASE POINT DESCRIPTION SUBSTANCE													ANNUAL TOT & AVE
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
SULFONATES													
CONCENTRATION (PPM)	2.12	.59				1.73	5.78			5.40	2.32	6.17	1.61
WEIGHT (POUNDS)	175	105				484	530			214	234	166	1,908
TDS													
CONCENTRATION (PPM)	1722.00	1925.00				1435.00	686.00			494.00	891.00	3780.00	747.87
WEIGHT (POUNDS)	162,951	144,798				125,576	190,975			66,828	88,471	101,389	884,988
THIETHYDROCARBONS													
CONCENTRATION (PPM)	.18	.42				.23	.28			.31			.08
WEIGHT (POUNDS)	15	45				8	15			15			98

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

NFF INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 FPT 306-I
NPF

DISPOSAL OR STORAGE LOCATION TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH												TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
CFA LANDFILL													
DISPENSED WASTE													
1 Y SOLID	400.0	450.0	455.0	400.0	250.0	450.0	340.7	250.0		346.0	428.4	350.0	4,120.1
2 Y SLID	128.0	144.0	128.0	128.0	80.0	144.0	96.0	80.0		120.0	112.0	112.0	1,272.0
3 Y SOLID	40.1	64.2	32.9	31.5	5.6	25.7	14.2	42.6	42.7	28.4	49.6	35.3	412.8
4 Y SOLID	28.3	35.2	52.5	26.7		21.7	103.0	5.6	36.7	30.6	111.4	2.8	454.5
5 Y SOLID				5.4	13.6	.4							19.4
9 F SOLID								450.0					450.0
SPRAY PCND SILT													
CFA OIL DEPOT													
STOREE WASTE													
6 K LIQUID	1,850.0			550.0				1,200.0			2,400.0		6,000.0
WASTE OIL													
CFA SCRAPYARD													
DISPENSED WASTE													
5 Y SOLID	4.7	27.6						28.2	17.1		79.1	1.4	9.3
													167.4
GRAND TOTALS													
DISPENSED WASTE													
1 Y SOLID	400.0	450.0	455.0	400.0	250.0	450.0	340.7	250.0		346.0	428.4	350.0	4,120.1
2 Y SLID	128.0	144.0	128.0	128.0	80.0	144.0	96.0	80.0		120.0	112.0	112.0	1,272.0
3 Y SOLID	40.1	64.2	32.9	31.5	5.6	25.7	14.2	42.6	42.7	28.4	49.6	35.3	412.8
4 Y SOLID	28.3	35.2	52.5	26.7		21.7	103.0	5.6	36.7	30.6	111.4	2.8	454.5
5 Y SOLID	4.7	27.6	5.4	13.6	.4		28.2	17.1		79.1	1.4	9.3	186.8
9 F SOLID								450.0					450.0
STOREE WASTE													
6 K LIQUID	1,850.0			550.0				1,200.0			2,400.0		6,000.0

MRF WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 307-I
VDF

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL & AVERAGES
WATER DATA													
1 WATER PUMPED (GAL)	21,250	16,630	18,640	22,240	22,900	30,280	31,950	24,350	27,070	22,570	20,020	21,920	279,820
2 WATER PUMPED (GAL)	19	55	114	66	696	775	936	1,132	137	79	23	26	4,058
3 WATER PUMPED (GAL)	323	1,337	2,811	1,764	4,839	12,170	10,770	9,468	2,605	306	144	424	46,961
TOTAL WATER PUMPED (GAL)	21,592	18,022	21,565	24,070	28,435	43,225	43,656	34,950	29,812	22,955	20,187	22,370	330,839
WATER DISPOSAL													
AIR (GAL)	*	7,976	6,848	9,098	9,123	11,290	14,470	7,421	11,710	11,360	13,980	5,843	15,390
SURFACE (GAL)	*	11,360	9,030	9,941	12,770	14,720	25,840	23,420	21,500	16,240	5,840	11,920	3,220
SUBSURFACE (GAL)													
SEWAGE DATA													
BUILD VOL. (GAL)	1,371	1,388	1,519	1,164	1,182	1,306	1,988	1,740	953	1,581	1,777	2,048	18,017
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)	90.2	112.0	108.0	48.5	9.5	114.0	65.5	100.0					
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH-FINAL	8.8	8.3	8.0	7.7									
TOTAL SEWAGE VOL. (GAL)	1,371	1,388	1,519	1,164	1,182	1,306	1,988	1,740	953	1,581	1,777	2,048	18,017
TOTAL WATER DISPOSED (GAL)	20,707	17,266	20,558	23,057	27,192	41,616	32,829	34,950	28,553	21,401	19,540	20,658	308,327
ACCOUNTABILITY (%)	95.9	95.8	95.3	95.8	95.6	96.3	75.2	100.0	95.8	93.2	96.8	92.3	93.2

NOTE: ** IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

PUB DATE: 04/22/77

NMF FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 OPT 308-T
NPF

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
TYPE 5													
VOLUME (GAL)	202	186	187	149	104	80	63	23	49	88	121	167	1,419
SO2 (LBS)	54	45	80	41	29	27	6	6	3	8	13	62	374
NOX (LBS)	5	5	5	4	3	2	2	1	1	2	3	4	37
PARTICULATES (LBS)	4	3	3	3	2	1	1		1	2	2	3	25
GRAND TOTALS													
SO2 (LBS)	54	45	80	41	29	27	6	6	3	8	13	62	374
NOX (LBS)	5	5	5	4	3	2	2	1	1	2	3	4	37
PARTICULATES (LBS)	4	3	3	3	2	1	1		1	2	2	3	25

SCHED. NO. INF6166-A

IDAHO OPERATIONS OFFICE
U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
INEL INDUSTRIAL WASTE MANAGEMENT INFORMATION SYSTEM

RUN DATE: 04/22/77

ANL AIRBORNE DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976PG 1 PPT 404-I
ANL-A

SUBSTANCE	ANNUAL												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
HEXAVALENT CR WEIGHT (PCUNS)	3	3	2	2	4	4	3	4	3	4	3	5	40
ZINC ION WEIGHT (PCUNS)													

ANL AIRBORNE DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 2 RPT 406-T
AHM-A

RELEASE POINT DESCRIPTION SUBSTANCE	JAN JUL	FEB AUG	MAR SEP	APR OCT	MAY NOV	JUN DEC	ANNUAL TOT & AVE
COOLING TOWER 757 VOLUME (CU.FT. IN 1000)	10 10	10 14	7 9	7 13	14 10	12 14	130
HEXAVALENT CR CONCENTRATION (PPM)	<u>5.43</u> <u>5.42</u>	<u>5.43</u> <u>5.34</u>	<u>5.44</u> <u>5.36</u>	<u>5.38</u> <u>5.36</u>	<u>5.32</u> <u>5.31</u>	<u>5.41</u> <u>5.31</u>	5.38
WEIGHT (POUNDS)	3 3	3 4	2 3	2 4	4 3	4 5	40
ZINC ION CONCENTRATION (PPM)	<u>.31</u> <u>.33</u>	<u>.47</u> <u>.24</u>	<u>.38</u> <u>.31</u>	<u>.30</u> <u>.37</u>	<u>.28</u> <u>.32</u>	<u>.42</u> <u>.31</u>	.34
WEIGHT (POUNDS)	0 0	0 0	0 0	0 0	0 0	0 0	0

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

ANL LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 405-1
AML-L

AREA GRAND TOTALS SUBSTANCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTALS
AMIDES WEIGHT (POUNDS)										20			20
BETZ NEUTRMEEN WEIGHT (POUNDS)	20	18	23	14		6							81
CALCIUM ION WEIGHT (POUNDS)	1	1	1	1	1	1	1	3	4	1	3	3	21
CARBONITRUCYANATES WEIGHT (POUNDS)										4			4
CHLORIDE ICN WEIGHT (POUNDS)					8		8	8	8	8	8	8	56
CHLOROCARBONS WEIGHT (POUNDS)						1		1	1				4
CHLORHYDRCARBONS WEIGHT (POUNDS)													
CHLROSILFCNES WEIGHT (POUNDS)										16			16
CLCRHYDRICARBONS WEIGHT (POUNDS)													
HYDRCARBON-AMINES WEIGHT (POUNDS)						1		2	1	2	1	1	9
HYDFCARBONS WEIGHT (POUNDS)										40			40
HYDROXYCARBONS WEIGHT (POUNDS)						3		3	3	3			12
KP4C COCLANT CNTRL WEIGHT (POUNDS)							160						160
M-6C ALGAECIDE WEIGHT (POUNDS)							8						8
M-ECT ALGAECIDE WEIGHT (POUNDS)							8						8

ANL LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 2 PPT 405-1
ANL-L

AREA GRAND TOTALS SUBSTANCE													ANNUAL TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
MORPHLINE WEIGHT (POUNDS)													1
CYXYCARBONS WEIGHT (POUNDS)													1
PHOSPHATE ION WEIGHT (POUNDS)	96	120	72	84	22	27	21	22	17	67	21	23	592
PHOSPHONATES WEIGHT (POUNDS)					13		13	13	13				52
PHOTO LAB CHEMICAL WEIGHT (POUNDS)	440	440	440	440	440	440	440	440	440	440	440	440	5,280
SILICACARBONS WEIGHT (POUNDS)					11		11	11	11				44
SKASOL WEIGHT (POUNDS)	80	80	80	80		80							400
SODIUM ION WEIGHT (POUNDS)	768	707	755	617	589	520	517	878	879	749	640	1,809	9,428
SULFATE ION WEIGHT (POUNDS)	3,857	3,911	3,163	2,855	4,811	4,425	3,533	5,290	5,624	4,692	4,165	13,640	59,966
THIICARBONS WEIGHT (POUNDS)					10		10	10	10				40
TRIVALENT CR WEIGHT (POUNDS)	57	72	43	50	70	94	73	76	59	95	73	82	844
ZINC ION WEIGHT (POUNDS)	18	22	13	16	22	29	23	24	18	39	23	26	273

ANL LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 3 RPT 405-I
ANL-L

RELEASE POINT DESCRIPTION SUBSTANCE													ANNUAL TOT & AVE
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
FACILITY 779 SURFACE VOLUME (GAL. IN 1000) HYDROGEN-ION CONC. (PH)	843	473	412	450	552	517	597	673	695	613	707	815	7,347
CHLORIDE ION CONCENTRATION (PPM) WEIGHT (POUNDS)					1.74 8		1.61 8	1.53 8	1.38 8	1.56 8	1.36 8	1.18 8	.91 56
SKASOL CONCENTRATION (PPM) WEIGHT (POUNDS)	11.38 80	20.25 80	23.26 80	21.31 80		18.56 80							6.52 400
INDUSTRIAL POND 746 SURFACE VOLUME (GAL. IN 1000) HYDROGEN-ION CONC. (PH)	4,073	3,258	3,170	2,101	3,633	5,066	3,088	4,755	4,562	2,784	3,513	2,784	42,787
AMIDES CONCENTRATION (PPM) WEIGHT (POUNDS)													.06 20
BETZ NEUTRAKENE CONCENTRATION (PPM) WEIGHT (POUNDS)	.59 20	.65 18	.88 23	.80 14		.14 6							.23 81
CALCIUM ION CONCENTRATION (PPM) WEIGHT (POUNDS)	.03 1	.03 1	.03 1	.05 1	.03 1	.02 1	.04 1	.08 3	.10 4	.04 1	.10 3	.12 3	.06 21
CYCLOTHIJCYANATES CONCENTRATION (PPM) WEIGHT (POUNDS)													.01 4
CHLOROCARBONS CONCENTRATION (PPM) WEIGHT (POUNDS)					.04 1			.05 1	.03 1	.03 1			.01 4
CHLORHYDROCARBONS CONCENTRATION (PPM) WEIGHT (POUNDS)													
CHLOROSUFENES CONCENTRATION (PPM) WEIGHT (POUNDS)													.04 16

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

ANL LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 4 PPT 405-T
ANL-L

RELEASE POINT DESCRIPTION SUBSTANCE													ANNUAL TOT & AVE
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
CLCRHYDROCARBNS CONCENTRATION (PPM) WEIGHT (POUNDS)													
HYDROCARBON-AMINES CONCENTRATION (PPM) WEIGHT (POUNDS)													
HYDROCARBONS CONCENTRATION (PPM) WEIGHT (POUNDS)													
HYDROXYCARBONS CONCENTRATION (PPM) WEIGHT (POUNDS)													
KP4C COOLANT CNTRL CONCENTRATION (PPM) WEIGHT (POUNDS)													
M-6C ALGAECIDE CONCENTRATION (PPM) WEIGHT (POUNDS)													
M-8CT ALGAECIDE CONCENTRATION (PPM) WEIGHT (POUNDS)													
MORPHOLINE CONCENTRATION (PPM) WEIGHT (POUNDS)													
OXYCARBONS CONCENTRATION (PPM) WEIGHT (POUNDS)													
PHCSPHATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	2.82 96	4.31 120	2.72 72	4.79 84	4.72 22	4.54 27	4.81 21	4.55 22	4.44 17	2.88 67	4.72 21	4.99 23	1.66 592
PHCSPHONATES CONCENTRATION (PPM) WEIGHT (POUNDS)													

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

ANL LIQUID DISPOSED SUBSTANCES SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 5 RPT 405-1
ANL-E

RELEASE POINT DESCRIPTION SUBSTANCE													ANNUAL TOT & AVE
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PHOTIC LAB CHEMICAL CONCENTRATION (PPM) WEIGHT (POUNDS)	12.94 440	16.18 440	16.63 440	25.10 440	14.51 440	10.41 440	17.07 440	11.99 440	11.56 440	18.94 440	15.01 440	18.94 440	14.79 5,280
SILICACARBONS CONCENTRATION (PPM) WEIGHT (POUNDS)					1.37 11		1.43 11	1.28 11	1.29 11				.13 44
SODIUM ION CONCENTRATION (PPM) WEIGHT (POUNDS)	22.59 768	26.00 707	28.54 755	35.15 617	15.42 585	12.30 520	21.06 517	22.13 878	23.08 879	32.24 749	21.82 640	22.86 1,809	26.40 9,428
SULFATE ION CONCENTRATION (PPM) WEIGHT (POUNDS)	113.47 3,857	143.85 3,911	119.56 3,163	162.83 2,855	158.68 4,811	104.67 4,425	131.10 3,533	133.31 5,290	147.72 5,624	201.95 4,692	142.07 4,165	587.02 13,640	167.94 59,966
THIICARBONS CONCENTRATION (PPM) WEIGHT (POUNDS)					1.32 10		1.31 10	1.24 10	1.25 10				.11 40
TRIVALENT CR CONCENTRATION (PPM) WEIGHT (POUNDS)	1.68 57	2.63 72	1.63 43	2.85 50	2.32 70	2.22 94	2.83 73	1.92 76	1.55 59	4.09 95	2.42 73	3.53 82	2.36 844
ZINC ION CONCENTRATION (PPM) WEIGHT (POUNDS)	1.53 18	1.51 22	1.49 13	1.91 16	1.72 22	1.69 29	1.39 23	1.60 24	1.42 18	1.68 39	1.78 23	1.12 26	.77 273

NOTE: UNDERLINE = CALCULATED CONCENTRATION BASED UPON CHEMICAL USAGE

ANL INDUSTRIAL WASTE SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 1 PDT 406-I
ANL

DISPOSAL OR STORAGE LOCATION TYPE OF WASTE	VOLUME OR WEIGHT BY MONTH												TOTALS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
CFA LANDFILL														
DISPOSED WASTE														
1 Y SOLID	160.0	160.0	200.0	160.0	160.0	200.0	160.0	160.0	160.0	160.0	160.0	210.0	2,050.0	
2 Y SOLID	32.0	32.0	40.0	32.0	32.0	40.0	32.0	32.0	32.0	32.0	32.0	40.0	408.0	
GRAND TOTALS														
DISPOSED WASTE														
1 Y SOLID	160.0	160.0	200.0	160.0	160.0	200.0	160.0	160.0	160.0	160.0	160.0	210.0	2,050.0	
2 Y SOLID	32.0	32.0	40.0	32.0	32.0	40.0	32.0	32.0	32.0	32.0	32.0	40.0	408.0	

ANL WATER USAGE AND DISPOSAL SUMMARY
 FOR JANUARY THROUGH DECEMBER 1976

PG 1 RPT 407-I
 ANL

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
WATER DATA													
1 WATER PUMPED (GAL)	5,519	4,793	3,671	4,067	7,844	7,056	6,758	8,069	5,705	6,424	5,019	5,784	70,739
2 WATER PUMPED (GAL)	5,519	4,793	3,671	4,067	7,844	7,056	6,758	8,069	5,705	6,424	5,019	5,784	70,709
TOTAL WATER PUMPED (GAL)	11,038	9,566	7,342	8,134	15,688	14,112	13,516	16,138	11,410	12,848	10,038	11,568	141,418
WATER DISPOSAL													
AIR (GAL)	5,599	5,187	3,078	4,987	7,024	6,294	9,144	5,367	4,917	8,265	5,545	6,406	75,813
SURFACE (GAL)	4,073	3,258	3,170	2,101	3,633	5,066	3,088	4,755	4,562	2,784	3,513	2,784	42,787
SLBSURFACE (GAL)													
SEWAGE DATA													
720 BUILD VOL. (GAL) *	12	12	12	12	12	12	12	12	12	12	12	12	144
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
% REMOVED													
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)													
FINAL CONC. (PPM)													
INCREASED FACTOR													
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH-FINAL													

NOTE: "*" IN COLUMNS INDICATE A PORTION OF VOLUME IS ESTIMATED

INL WATER USAGE AND DISPOSAL SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

PG 2 RPT 407-I
ANL

(ALL VOLUMES = NEAREST THOUSAND GALLONS)

WELL OR BUILDING NO. / SEWAGE BUILDING NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS & AVERAGES
SEWAGE DATA													
779 BUILD VOL. (GAL)	843	473	412	450	552	517	597	673	695	613	707	815	7,347
BIOCHEMICAL OXYGEN DEMAND (BOD)													
RAW CONC. (PPM)				200.0	187.0	135.0	287.0	138.0	165.0	143.0			179.3
FINAL CONC. (PPM)				37.8	22.8	63.9	32.8	49.9	44.6	30.0			40.3
% REMOVED				81.1	87.8	52.7	88.6	63.8	73.0	79.0			77.5
DISSOLVED OXYGEN (DO)													
RAW CONC. (PPM)				.5	.1		.2						.3
FINAL CONC. (PPM)				.4	5.7		.2						2.7
INCREASED FACTOR				-.2	56.0								
SETTLEABLE SOLIDS (SS)													
RAW CONC. (ML/L)													
FINAL CONC. (ML/L)													
% REMOVED													
PH-FINAL													
TOTAL SEWAGE VOL. (GAL)	855	485	424	462	564	529	609	685	707	625	719	827	7,491
TOTAL WATER DISPOSED (GAL)	10,527	8,930	6,672	7,550	11,221	11,889	12,841	14,807	10,186	11,674	9,777	10,017	126,091
ACCOUNTABILITY (%)	95.4	93.2	90.9	92.8	71.5	84.2	95.0	91.8	89.3	90.9	97.4	86.6	89.2

ANL FUEL OIL USAGE AND STACK EFFLUENTS SUMMARY
FOR JANUARY THROUGH DECEMBER 1976

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ANL

(ALL VALUES = NEAREST THOUSAND)

FUEL OIL TYPE EFFLUENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
TYPE 2													
VOLUME (GAL)	59	55	70	50	5	12	13	7	20	13	56	26	396
SO2 (LBS)	3	2	3	2		1	1		1	1	3	1	18
NOX (LBS)													
PARTICULATES (LBS)					1						1		2
GRAND TOTALS													
SC2 (LBS)	3	2	3	2		1	1		1	1	3	1	18
NOX (LBS)													
PARTICULATES (LBS)					1						1		2